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ANNUAL REPORT
OF
HEALTH DEPARTMENT
FOR
1960

PRESENTED BY

Dr. B. V. SUNDARABABU, M.B.B.S., D.P.H. (CAL.)
HEALTH OFFICER, CORPORATION OF MADRAS.

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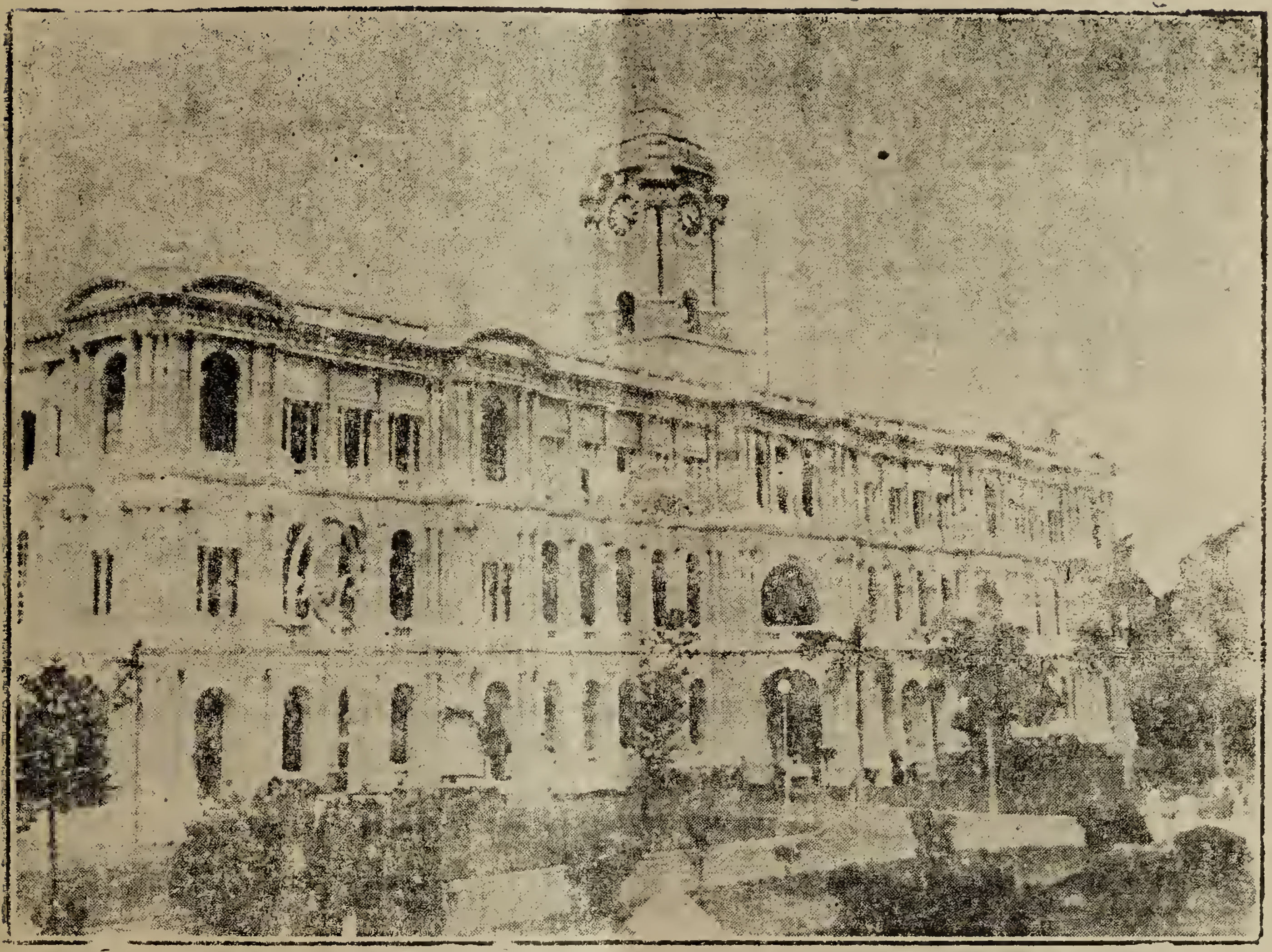

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ANNUAL REPORT
OF
THE HEALTH OFFICER
FOR
1960

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The report gives an overall picture of the health administration in the City during the year 1960. There had been marked improvements in all spheres of public health services.

The main infectious diseases such as Cholera and Small-pox especially the former was completely prevented as is evidenced by the fact that the City was free from the above menance during the year under report. Regarding Small-pox, timely steps were taken in the early stages to arrest the spread of the disease which resulted in the incidence of only a few cases, here and there.

The decline in the Maternal Mortality in the City has been maintained during the year. The women folk especially of the poorer classes availed of the improved methods of maternity and child welfare services at the various centres, during antenatal and post-natal periods and confinement.

The number of malaria cases treated in the Corporation dispensaries during the year 1960 was 129 as compared to 1,077 cases during the year 1959. This works out to a percentage of 0.009 during 1960 as compared to 0.06 during 1959.

The Dispensaries and Special Clinics maintained by the Corporation as usual rendered FREE Medical Aid to the citizens. They are attracting more and more people because of the introduction of modern methods of treatment.

The Infectious Diseases Hospital at Tondiarpet, whose Medical Officer was raised to the status of a Superintendent as a result of upgrading the post last year, has been maintained systematically creating confidence in the minds of the citizens. The Superintendent of the hospital was permitted to undergo advanced course of study in infectious diseases at Colorado University, U.S.A. on the invitation of W.H.O., as the knowledge gained by him will be very useful in the matter of treatment as well as prevention of the diseases in the City.

The children studying in the Corporation schools were as usual examined by the Medical Inspectors and necessary advice and treatment were given for improving of their health. Eye tests were conducted for poor children having defective vision and the benefit of free supply of spectacles was extended to them.

Though the four laboratories under the control of the Health Department continued to serve the public, the Public Health Laboratory under the charge of the Pathologist—particularly, gained popularity among the local Registered Medical Practitioners and the citizens seeking its service.

The Corporation Zoological Gardens continued to attract a large number of visitors besides the school children and tourists, during the year. School children from various places outside Madras also visited the Zoo for its educative value.

The Child Welfare Centres with Maternity Wards in the City rendered very useful and timely service to the poor people during the year. Out of the total number of 72,610 births in the City during the year, 15,882 births were conducted in the Maternity Wards of these centres and 29,087 cases of labour came under the care and observation of the scheme at the centres.

The poor children attending the Corporation Schools continued to enjoy the benefit of free Midday Meals on all working days. The above benefit was extended to 5,000 more children during the year thus increasing the number of meals supplied per diem to 33,895 as against 28,730 in the previous year.

Special arrangements were also made at the Midday Meal Centres for preparation and supply of food packets to the poor people and hut-dwellers affected by the floods in several parts of the City.

The facilities provided to the citizens under the Family Planning Scheme yielded good results and the number of persons seeking advice in the Fathers' and Mothers' Information Centres also showed a gradual increase during the year.

The City continues to expand with new colonies and industries springing up mostly on the border areas and the Health Officer and his staff are trying their best to improve the health of the City with the limited resources available. Steps are also taken to rouse the civic consciousness of the public through propaganda and educate them in the matter of cleanliness and environmental hygiene. Co-operation of the citizens is quite essential in keeping the City clean and free from diseases.

In conclusion, I may mention here that the City Health Officer, Dr. B. V. Sundara Babu, M.B.B.S., D.P.H. (Cal.), his Assistants, the Lady Superintendent (Child Welfare Scheme) and the other members of the staff have done their best and carried on the administration with zeal and interest.

R. BALASUBRAMANIAN, I.A.S.,
Commissioner,
Corporation of Madras.

MADRAS,
19—7—1961.

CORPORATION OF MADRAS

HEALTH DEPARTMENT

ANNUAL REPORT FOR 1960

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INTRODUCTION

With great pleasure I am presenting my FIFTH ANNUAL REPORT on the Health Administration of the City during 1960 giving below a few important facts and figures of the services rendered towards the maintenance of better health of the citizens.

POPULATION :

The population of the City as per the Census of 1951 was 14,16,056. The mid-year population for the year 1960 as estimated by the Director-General of Health Services was 22,08,000 against 21,10,000 of the previous year. The net increase of the population calculated by the method of natural increase, i.e., excess of births over deaths was 38,881.

BIRTHS :

The number of births registered during the year reached a total of 72,610 recording a birth rate of 32.8 per mille as against the corresponding figures of 70,155 and 33.24 per mille respectively for the year 1959.

DEATHS :

During the year 1960, the total number of deaths registered excluding still-births, was 33,729 the rate of deaths being 15.2 per mille as against 33,515 deaths with a death rate of 15.88 per mille, registered during the previous year.

INFANTILE MORTALITY :

The number of deaths of infants under the age of one year recorded during the year was 8,832 with a death rate of 121.6 per 1,000 live births registered, against 9,062 and 128.9 in the year 1959.

MATERNAL MORTALITY :

The maternal mortality rate during the year under review was 3.5, the total number of deaths being 119. The present improved methods of treatment administered in the Child Welfare and Maternity Centres and the timely help given to the mothers during the ante-natal and post-natal period, and also during confinement will reduce the maternal mortality in due course.

ENDEMIC AND EPIDEMIC DISEASES :

The City was almost free from Cholera during 1960 due to the effective check put forth both on the preventive and curative sides. The number of attacks of Small-pox during the year was 2,248 as against 2,138 in 1959.

VACCINATION AND INOCULATIONS :

During the year under review 4,17,555 vaccinations against Small-pox and 7,648 preventive inoculations against Cholera were done. The school children, factory workers and officials in the local firms and institutions had mass revaccinations during the year. The experimental measure of vaccination of the new born within 3 days of the birth introduced in Choolai Maternity Home in 1959 was continued during 1960. Vaccination and inoculation certificates were issued to 7,375 persons for international travel during the year 1960.

ANTI-MOSQUITO OPERATIONS :

The above work in the City was carried on by a special staff trained for the purpose. Besides their normal work, of cleaning and oiling storm water drains, desilting, etc., and detecting and destroying the mosquito breedings in storm water drains, pools, celss-pools water ways and canals, deflying work was also done in the public and private markets, slums, etc. A sum of Rs. 1,540 was collected towards the D.D.T. spraying and deflying charges from the owners of the private markets and buildings and credited to the General Revenue of the Corporation.

NATIONAL MALARIA ERADICATION PROGRAMME :

The National Malaria Eradication Programme, with its D.D.T. spraying and anti-larval measures introduced in 1958, continued to yield good results. The total number of malaria cases reported during the year was 129 only as against 1,077 in the previous year. This is negligible when compared to the average figure of 7,000 recorded before the implementation of the National Malaria Control Programme in 1955 and National Malaria Eradication Programme in 1958. Besides the pre-operational surveys, continuous checks were carried out to note the effectiveness of the measures applied to prevent malarial transmission.

MEDICAL RELIEF :

The facilities provided to the citizens for FREE medical aid was increased during the year 1960 by opening a new dispensary at 21-A, Subbaraya Chetty Street, Nammalwarpet. 46 General Dispensaries and 9 Special Clinics for Tuberculosis, Leprosy and Skin Diseases and Venereals were maintained, during the year besides the Infectious Diseases Hospital at Tondiarpet. A new Child Welfare and Maternity Centre was also opened at Hospital Maidan, Choolai for providing better care to the mothers and childern of that locality. The total number of centres maintained during the year was 44. Medical Examination of the children attending the Corporation schools in the City was conducted by the medical inspectors as usual, and necessary advice and treatment were given.

MIDDAY MEALS :

The poor children attending the Corporation schools in the City were supplied with midday meals on all working days. The average number of midday meals supplied per diem was 28,730 till 20-8-1960 and from 22-8-1960 onwards it was increased to 33,895. Besides this, selected under-nourished children were also given reconstituted milk.

LABORATORY SERVICES :

The Public Health Laboratory maintained by the Corporation continued to be popular with the people and the private practitioners in the City and suburbs who availed of its services to a greater extent during the year 1960. A sum of Rs. 31,103-25 nP. was collected towards the fees for testing specimens of blood, urine, etc., as against Rs. 27,251-50 nP. collected during the previous year. The Food Analyst Laboratory also continued to function efficiently and helped in the matter of detecting adulteration of foodstuffs and booking the offenders on the reports of the Public Analyst under the prevention of Food Adulteration Act and the rules framed thereunder.

ASHOK VIHAR :

The Health and Recreation Centre, "Ashok Vihar" continued to provide medical, maternity and recreation facilities to its member families who are poor slum dwellers. Administration of Triple Antegen for children as an immunization against Whooping Cough, Diphtheria and Tetanus was continued during the year.

SLAUGHTER HOUSES :

During the year 1960, five slaughter houses were maintained separately for Sheep, Cattle and Pigs at Perambur Barracks and Saidapet. The total number of animals slaughtered was 27,051 Cattle, 5,58,047 Sheep and Goats and 5,030 Pigs.

LETHAL CHAMBER :

The Lethal Chamber at Basin Road maintained by this Department, continued to serve the public in abating the nuisance caused by stray dogs. The total number of dogs and bitches seized and destroyed during the year was 18,105 and 20,399 respectively.

FAMILY PLANNING :

The Family Planning Pilot Scheme which was introduced in the year 1957 having been extended to the whole City functioned in full. During the year, 775 cases of a salpingectomy and 432 cases of vasectomy were performed as against 328 and 134 respectively in the previous year through the Corporation agencies. The total number of Father Information Centres continued to be 32 and Mother Information Centres 43. The number of Fathers that were instructed in the centres was 15,066 and mothers 49,588.

SPECIAL HOME :

The Corporation Special Home at Krishnampet continued to be useful to the Society in the matter of tackling the beggar problem in the City to some extent especially of the leprous persons roaming about the streets of Madras as it is run more or less as a reception home to the diseased, infirm and disabled beggars rounded up by the police and committed to the Home under the provisions of the Madras City Police Act for detention. During the year under review, the Home maintained on an average 235 inmates as against the sanctioned strength of 300 persons.

ZOOLOGICAL GARDENS :

The Corporation Zoo under the control and management of the Health Department of this Corporation entered 106th year of its existence with a valuable record of previous years. It is one of the renowned Zoological Gardens in India serving the people of the southern region both as a recreational and educational centre. The total number of animals maintained in the Zoo during the year was 601. The wild Life Day was as usual celebrated during the year.

CONCLUSION :

I am grateful to the Commissioner for his helpful co-operation and valuable suggestions in the matter of improving the public health of the City during the year. I cannot also forget the assistance of my officers and other members of the staff and the timely co-operation of the other departments in the administration of the Health Department, to whom I wish to offer my thanks and good wishes.

B. V. SUNDARA BABU,
Health Officer.

MADRAS,
13*th June* 1961.

1, STATISTICAL SUMMARY

1.	Area	31,90,09,920 acres (or) 49.84 Sq. miles
2.	Population as per the Census of 1951	14,16,056
3.	Population estimated for the Mid-Year 1960	22,08,000
4.	Population calculated on the natural increase method (excess of births over deaths)	16,97,960
5.	Average density per acre	53.04
6.	Births excluding Still Births	72,610
7.	Deaths excluding Still Births	33,729
8.	Still Births	2,242
9.	Birth Rate as per estimated mid-year population	32.88
10.	Birth Rate as per population calculated on the natural increase method (excess births over deaths)	42.76
11.	Death Rate as per estimated mid-year population	15.27
12.	Death Rate as per population calculated on natural increase method (excess of births over deaths)	19.86
13.	Natural increase	38,881
14.	Rate of natural increase per 1,000 of estimated population	17.60
15.	Still births per 1,000 births (live and still)	29.95
16.	Infant Deaths	8,832
17.	Infant Mortality Rate	121.6
18.	Maternal Deaths	119
19.	Maternal Mortality Rate	1.58
20.	Total No. of Small-pox cases reported	2,248
21.	Total No. of Deaths due to Small-pox	521
22.	Total No. of cases of Cholera reported	Nil.
23.	Total No. of deaths due to Cholera	Nil.
24.	Total No. of Primary Vaccinations done	54,650
25.	Total No. of Re-vaccinations done	4,17,555

II. METEOROLOGY.

The Meteorological condition of the Madras City recorded during the year 1960 is appended to the Statistical Supplement (Statement No. 1).

Rainfall.—The City experienced heavy rains during the latter part of the year which was nearly double the previous year's. The total rainfall recorded at the Nungambakkam observatory was 66.72 inches as against 38.0 inches for the year 1959.

The following statement shows the rainfall recorded from 1951 to 1960 monthwise :—

MADRAS (NUNGAMBAKKAM) RAINFALL (IN INCHES).

Month.	1951.	1952.	1953.	1954.	1955.	1956.	1957.	1958.	1959.	1960.
January ...	0.09	0.05	0.41	1.06	3.71	2.13	0.00	0.39	0.00	1.70
February ...	0.00	1.14	0.16	0.00	1.10	0.00	0.20	0.01	0.87	0.00
March ...	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Tr.
April ...	5.02	0.00	0.55	0.00	1.15	1.91	0.00	0.09	0.69	Tr.
May ...	0.03	18.54	0.00	0.15	7.13	0.90	0.40	2.78	0.49	0.32
June ...	0.95	1.00	0.37	0.14	1.89	3.59	1.39	1.79	2.01	1.77
July ...	3.98	1.63	3.38	9.01	3.73	4.47	5.59	1.77	2.60	2.51
August ...	8.39	3.95	2.62	6.08	9.71	6.36	5.48	7.37	1.98	1.28
September ...	2.87	1.17	5.03	3.63	1.93	8.37	3.59	1.62	3.34	10.82
October ...	2.91	9.60	21.81	11.33	8.99	6.76	8.59	16.43	13.51	9.19
November ...	12.72	1.30	4.92	2.33	7.56	7.22	16.63	18.25	11.98	33.45
December ...	0.60	9.92	1.30	10.62	4.74	3.72	0.11	3.61	1.42	5.68
Yearly Total ...	37.57	48.30	40.55	44.35	51.64	45.43	41.98	54.11	37.99	66.72

III. VITAL STATISTICS.

1. Population.

The City population as per Census of 1951 ...	14,16,056
Mid-year population of 1960 as estimated by the Director General of Health Services ...	22,08,000
The population calculated on the natural increase method (excess of births over deaths) ...	16,97,960

2. Births.

	1960 as against	1959.
Total births registered during the year ...	72,610	70,155
The birth rate calculated per 1,000 of the mid-year estimated population ...	32.88	33.24
The birth rate when calculated by natural increase method ...	42.76	42.28
The total still-births during the year ...	2,242	2,253
The rate of still-births per 1,000 births (live or still).	29.95	31.07

The statement shows the monthwise incidence of births during the year 1960 :—

Quarter.	Months.	No. of births.	Quarterly total
First ...	January ...	2,868	12,585
	February ...	5,068	
	March ...	4,649	
Second ...	April ...	5,183	17,478
	May ...	6,445	
	June ...	5,850	
Third ...	July ...	6,526	19,480
	August ...	6,828	
	September ...	6,126	
Fourth ...	October ...	7,047	23,067
	November ...	6,608	
	December ...	9,412	
	Total ...	72,610	72,610

The statement gives the details of births among the principal communities in the City :

Communities.	No. of births registered.		Total.
	Males	Females	
Aliens ...	89	94	183
Anglo-Indians ...	12	12	24
Indian Christians ...	1,727	1,643	3,370
Hindus ...	32,369	31,036	63,405
Muslims ...	2,882	2,742	5,624
Others ...	2	2	4
Total ...	37,081	35,529	72,610

Statement of live births by age of the mother and order of confinement at live births during 1960 is furnished in Statistical Supplement—Statement No. 15.

3. **Deaths.**

	1960 as against 1959	
Total No. of deaths registered (excluding still births).	33,729	33,515
Death rate as per estimated mid-year population ...	15.27	15.88
Death rate as per population of natural increase method (excess of births over deaths) ...	19.86	20.20
Natural increase of deaths ...	38,881	36,640
Net increase during the year ...	214	1,640

A statement of births and deaths, recorded in the City since 1960, is furnished below with special reference to the natural increase :—

Year.	Births.	Deaths.	Natural increase (+) or decrease (—)
1951	58,961	42,039	+ 16,922
1952	62,921	43,207	+ 19,714
1953	54,277	43,753	+ 10,524
1954	59,256	33,181	+ 26,075
1955	66,449	34,264	+ 32,185
1956	67,476	33,927	+ 33,549
1957	69,197	36,783	+ 32,414
1958	71,880	36,888	+ 35,000
1959	70,155	33,515	+ 36,640
1960	72,610	33,729	+ 38,881

The maximum of deaths were registered during the last quarter of the year, as can be seen from the monthwar incidence, tabulated hereunder :—

Quarter.	Months.	No. of deaths.	Quarterly total.
First	January	2,373	8,306
	February	3,168	
	March	2,765	
Second	April	2,104	7,087
	May	2,631	
	June	2,352	
Third	July	2,418	7,634
	August	2,775	
	September	2,441	
Fourth	October	3,133	10,702
	November	3,114	
	December	4,455	
	Total	33,729	33,729

The number of deaths registered in each division with the corresponding death rate is furnished in the Statistical Supplement—Statement No. 5.

Deaths amongst the principal Communities.

The occurrence of deaths community-war is as follows :—

Principal communities.	Males.	Females.	Total.
Aliens ...	6	6	12
Anglo-Indians ...	70	62	132
Indian Christians ...	759	720	1,479
Hindus ...	14,708	14,174	28,882
Muslims ...	1,643	1,571	3,214
Others ...	8	2	10
Total ...	17,194	16,535	33,729

The number of births and deaths registered with respective rates among the principal communities in the City during the year, as compared with the previous years, is turnished in the Statistical Supplement—Statement No. 11.

The statement furnished below gives the age and sex-wise distribution of total deaths :—

Age-group.	Males.	Females.	Total.	Percent-age rate.
Under 1 year ...	4,591	4,241	8,832	26.18
1 to 4 years ...	3,913	4,288	8,201	24.00
5 to 9 years ...	628	632	1,260	3.73
10 to 14 years ...	229	209	438	1.29
15 to 19 years ...	259	326	585	1.73
20 to 29 years ...	825	975	1,800	5.33
30 to 39 years ...	883	817	1,700	5.40
40 to 49 years ...	1,162	765	1,927	5.70
50 to 59 years ...	1,455	896	2,351	6.97
60 years and above ...	3,249	3,386	6,635	19.67
Total ...	17,194	16,535	33,729	100.00

Principal Causes of Death.

		1960 as against	1959
Deaths due to Small-pox during the year	...	521	443
Deaths due to Cholera during the year	...	...	54
Deaths due to respiratory diseases	...	7,988	8,415

The following statement shows the figures under the principal causes of death :—

Causes of death.		Males.	Females.	Total.	Rate per 1,000 estimated mid-year population.
Plague	...	...	...	...	...
Cholera	...	...	...	...	...
Small-pox	...	248	273	521	0.23
Measles	...	2	...	2	0.00*
Malaria	...	...	4	4	0.00*
Enteric Fever	...	88	49	137	0.06
Other Fevers	...	624	717	1,341	0.60
Dysentery	...	1,401	1,436	2,837	1.28
Diarrhoea	...	960	934	1,894	0.85
Tuberculosis (including T.B. of lungs)	...	462	268	730	0.33
Other Respiratory diseases.		4,040	3,948	7,988	3.64
Deaths due to child birth.		...	119	119	0.05
All other causes	...	9,369	8,787	18,156	8.23
Total	...	17,194	16,535	33,729	15.27

* Figures worked upto 2 decimal points.

Infant Mortality.

		1960 as against	1959
Infant mortality rate for the year	...	121.6	129.17

The statement below shows the number of deaths under different age-groups under 1 year :—

Age-groups.		No. of infant deaths.
Under 7 days	...	2,248
Above 7 days and under 1 month	...	1,057
Above 1 month and under 6 months	...	2,647
Above 6 months and under 1 year	...	2,880
Total	...	8,832

Statement showing the infant mortality rate recorded in the City since 1946 are :—

Year.		Infant mortality rate.
1946–50	...	176.26
1951–55	...	157.98
1956–60	...	135.04
1960 only	...	121.60

The undermentioned statement shows the principal causes of infant deaths :—

S. No.	Cause of death.		No. of deaths.	Age-disease specific death rate.
1	Cholera	...	...	...
2	Small-pox	...	117	1.32
3	Measles	...	...	...
4	Diptheria	...	13	0.14
5	Enteric fevers	...	...	...
6	Malaria	...	...	...
7	Other fevers	...	332	3.75
8	Dysentery	...	499	5.64
9	Diarrhoea	...	747	8.45
10	Infantile debility, malnutrition, including premature births	...	2,678	30.33
11	Diseases of the respiratory system	...	2,576	29.20
12	Convulsions	...	116	1.32
13	Other diseases	...	1,754	19.85
	Total	...	8,832	100.00

Maternal Mortality.

	1960 as against	1959
Deaths among the mothers as a result of child bearing ...	119	140
Maternal mortality rate ...	1.58	1.93

The maternal mortality rates for the last one decade is furnished hereunder :—

Year.		Maternal deaths.	Maternal mortality rate.
1951	...	151	2.50
1952	...	155	2.78
1953	...	155	2.78
1954	...	150	2.47
1955	...	156	2.34
1956	...	153	2.18
1957	...	150	2.08
1958	...	145	1.94
1959	...	140	1.93
1960	...	119	1.58

EPIDEMIC AND ENDEMIC DISEASES.

1. Small-pox.

	1960 as against	1959
Number of attacks of Small-pox during the year ...	2,248	2,138
Deaths during the year ...	521	443

The incidence of Small-pox showed some increase during the year but it was arrested by taking prompt and rigid preventive measures by deputing Special Sanitary Inspectors to the divisions where more number of cases were reported. Re-vaccinations were done to all the persons working in licensable trades, slum-dwellers and the residents of hutting grounds in those particular divisions.

In addition to the above, intensive mass vaccination programme was started during March 1960 and the first division situated at the extreme north of the City limits was selected for this purpose. Due to short of hands, the Corporation was compelled to take the services of 200 Students of the Sanitary Inspectors' Course who had already completed training in vaccination. The Director of Public Health agreed to this arrangement, and the Corporation was asked to pay a rupee per day per vaccinator to cover their conveyance charges. The entire first division was completely covered within two months' time. The total number of primary vaccinations performed during the period in all the divisions of the City was 17,030 and re-vaccinations 1,29,364. Certificates were issued to the persons who were vaccinated and they were also instructed to preserve them for three years.

During the year, the re-vaccination of children attending the Corporation schools and private schools was also taken up and completed successfully before the closure of the schools for summer vacation.

The number of attacks and deaths from Small-pox reported in the City during 1960 are as follows :

Months.	City.		Mofussil.	
	Attacks.	Deaths.	Attacks.	Deaths.
January ...	160	30	52	5
February ...	250	40	33	1
March ...	234	47	124	6
April ...	222	47	87	13
May ...	126	31	16	4
June ...	155	32	21	2
July ...	248	64	43	7
August ...	164	35	44	6
September ...	187	32	11	3
October ...	176	38	16	3
November ...	108	35	10	3
December ...	218	36	15	1
Total ...	2,248	467	472	54

The following statement shows the incidence of Small-pox and the vaccinations performed monthwar :—

Months.	Attacks.	Deaths.	Primary and Secondary Vaccinations.	Re-vaccinations.
January ...	160	30	2,969	12,895
February ...	250	40	6,600	48,619
March ...	234	47	6,914	1,01,554
April ...	222	47	5,359	58,115
May ...	126	31	3,601	29,314
June ...	155	32	4,119	21,769
July ...	248	64	4,942	30,382
August ...	164	35	4,489	25,568
September ...	187	32	3,887	23,555
October ...	176	38	4,004	22,740
November ...	108	35	3,185	16,745
December ...	218	36	4,567	26,299
Total ...	2,248	467	54,650	4,17,555

2. **Cholera.**

	1960 as against	1959
The incidence of Cholera during the year ...	Nil	176
Deaths due to Cholera during the year ...	Nil	54

The City of Madras was free from the incidence of Cholera throughout the year 1960.

Months.	City.		Mofussil.	
	Attacks.	Deaths.	Attacks.	Deaths.
January 1960 to December 1960.	Nil	Nil	Nil	Nil

3. **Enteric Fever.**

	1960 as against	1959
Number of attacks during the year ...	1,400	827
Number of deaths during the year ...	137	108

4. **Measles.**

Number of attacks during the year ...	1,079	650
Number of deaths during the year ...	2	1

5. **Tuberculosis.**

Number of deaths during the year ...	730	672

6. **Kala-azar.**

Number of attacks during the year ...	7	16
Number of deaths during the year ...	2	8

7. **Chicken-pox.**

Number of attacks during the year ...	2,134	1,737
Number of deaths during the year ...	Nil	Nil

8. Malaria.

The following statement shows deaths due to Malaria yearwar for the last 10 years :—

Year.		Deaths.	Death rate per 1,000 of estimated mid-year population.
1951	...	91	0.060
1952	...	75	0.050
1953	...	96	0.060
1954	...	105	0.070
1955	...	75	0.050
1956	...	33	0.020
1957	...	18	0.010
1958	...	14	0.070
1959	...	8	0.003
1960	...	4	0.001

ANTI-MOSQUITO OPERATIONS.

The City of Madras is divided into 4 ranges and each range consists of 25 Divisions.

With the help of 50 Malaria Maistries and 313 thozhilalies anti-mosquito operations were carried out by the general malaria section of the Corporation. There are 4 Malaria Supervisors specially trained in anti-malarial operations, each being incharge of 25 Divisions and their work is checked and inspected by the respective Range Assistant Health Officers under the general supervision of the City Health Officer.

During the year under review, the storm water drains, gully traps and masonry drains in the various parts of the City were brushed, cleaned and oiled against breedings of mosquitoes every week. For cleaning and oiling the increasing number of storm water drains due to new constructions the existing staff in the City had been re-grouped and spread over to various places by increasing the number of gangs and correspondingly reducing the size of each. The total length of the storm water drains in the entire City is about 73 *miles*.

The slums in the various parts of the City were periodically attended to and with the help of the cleansing staff, the cesspits were desilted and sullage stagnations removed before oiling was done. About 9,000 cesspits in all the slums and 8,000 cesspools in other unsewered and added areas were desilted and oiled weekly. Ditch drains, rain water and other stagnations were also oiled or sprayed as a preventive measure against breedings of mosquitoes.

Tanks and ponds in the City were cleaned at regular intervals and kept free trom moss and algae which aid mosquito breeding.

Breedings commonly occurring in moist places of houses and the surrounding areas were destroyed with the help of the flying squads as and when complaints were received. Mosquitoes breed profusely in bed pools of City water ways, burrows, pits and rain water stagnations. Anti-larval operations were put through periodically to destroy the breedings in such places.

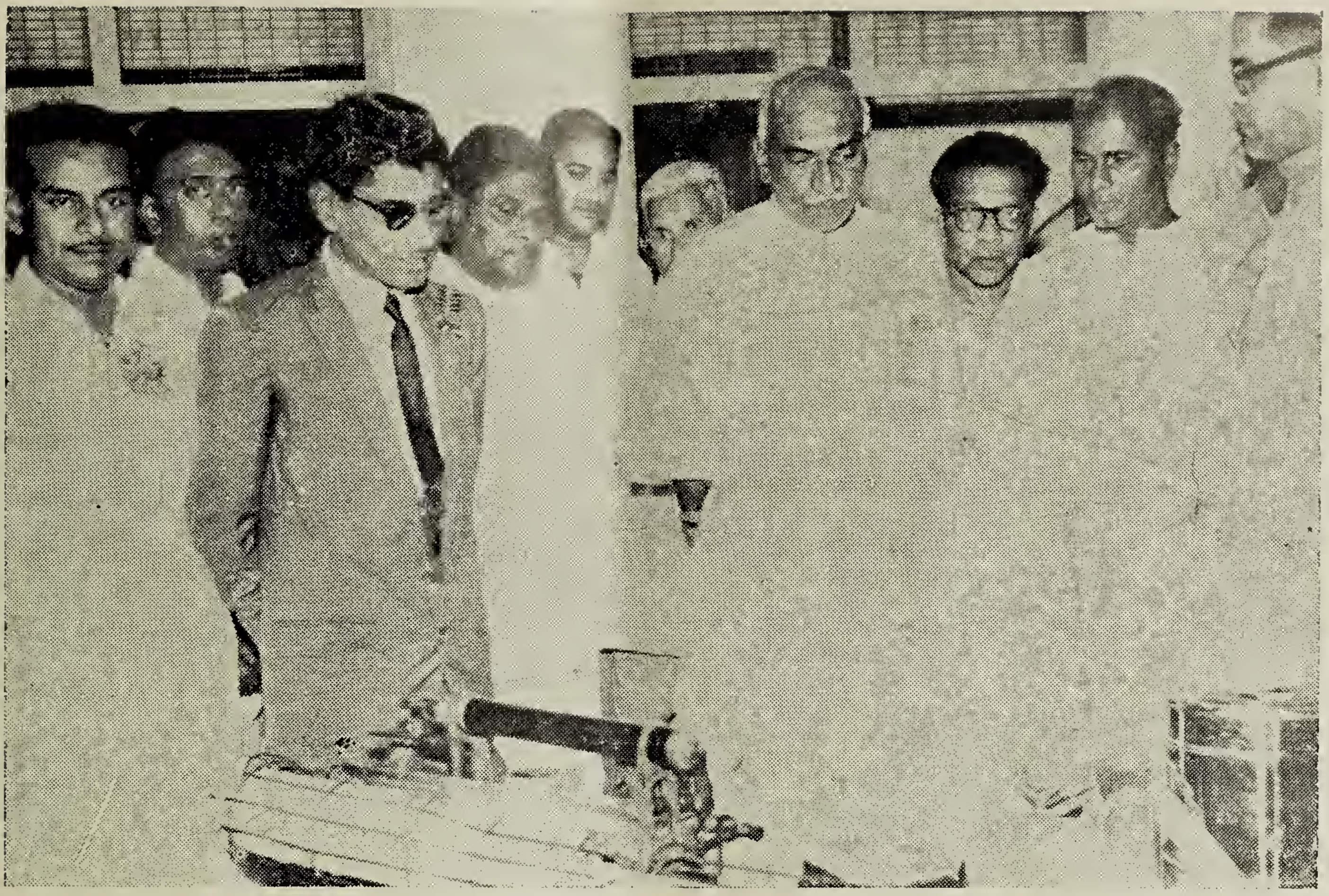
Wells, cisterns and overhead tanks in the City were under constant attention of the staff of the National Malaria Eradication Programme as breedings of Anopheles Stephensi species commonly occur in them. Such of the breeding places were treated with aromax solution for their destruction. In premises where wells were the only source of water supply for the residents, larvivorous fish were introduced into them to prevent the breedings.

As a result of heavy rains during the year 1960, the number of stagnations, especially in low-lying areas and open lands had increased and prompt action was taken to prevent mosquito breedings in such places. 37,189 gallons of mixed oil and 5,270 gallons of pyrethrum solution and Diazinon were used for anti-larval and deflying purposes. Deflying was done in and around the markets, lavatories, dust bins and places filled with garbage in the City every week.

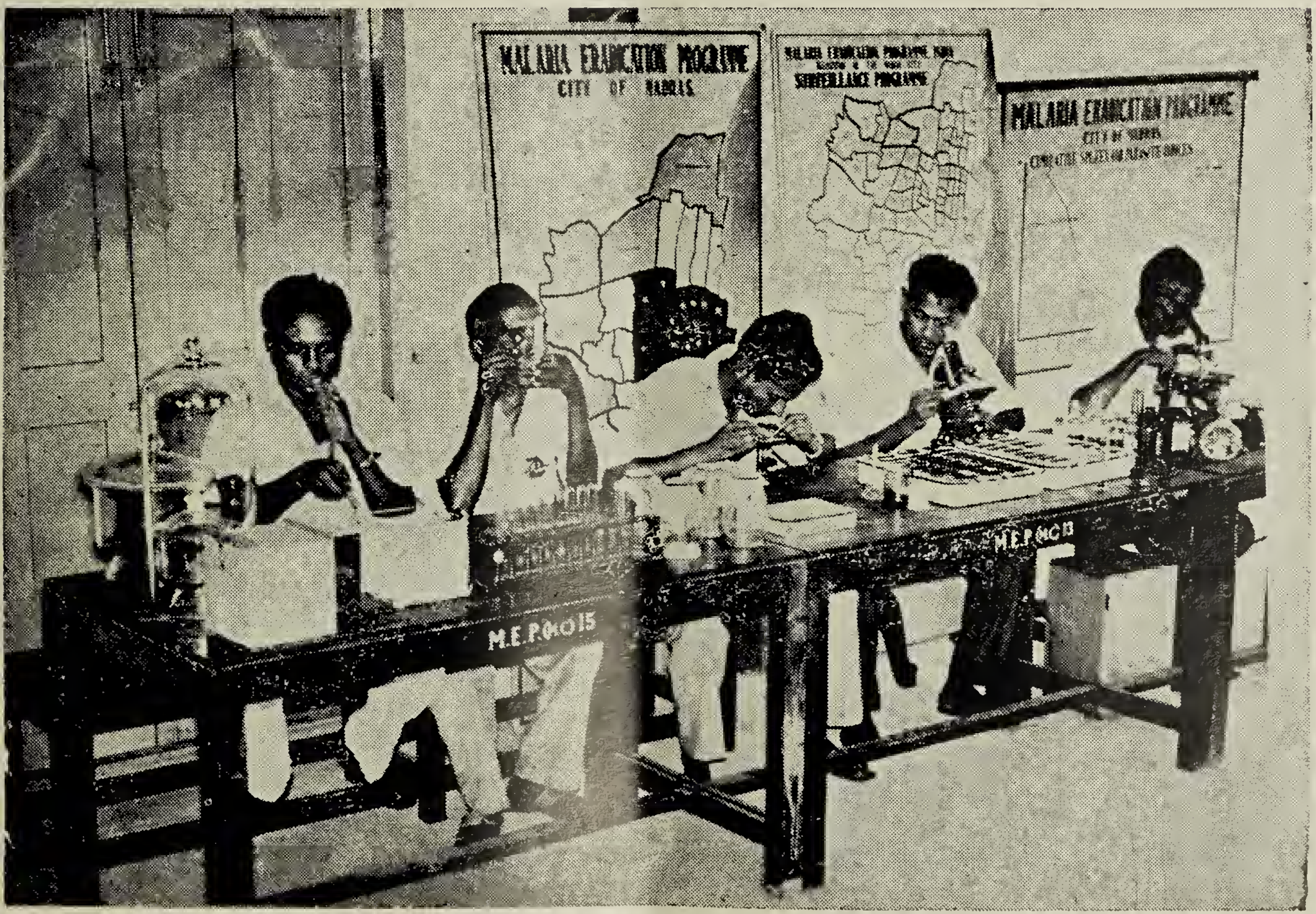
As per international sanitary conventions, the Corporation is bound to keep half a mile area around the harbour free from aedes mosquito, which is a vector for the disease "yellow fever." For this purpose special stegomiya squads were employed in the various divisions that fall within half a mile radius from the harbour. The special staff inspected every house and every collection of water in these areas and steps were taken to see that there was no breeding of aedes aegypyti.

The main water ways that flow through the heart of the City, viz., Buckingham canal, Cooum river and Adyar river have become very good sources of breeding of mosquitoes due to contamination of these waters with the sewage of the City. There is another channel which takes the sewage of Nammalwarpet and the trade wastes of Buckingham & Carnatic Mills—the Otteri Nullah and it is also a source of good breeding. Though this department has been trying to control the mosquito breeding in these waterways yet they have become a big problem that could not be easily dealt with. Until necessary arrangements are made to divert all the sewage that enters these waterways, the nuisance will continue.

As a routine measure in the endemic areas of the City, residual spraying against adult mosquitoes was conducted by the Senior Entomologist. However, on complaints and on payment of fees at scheduled rates, D.D.T. spraying was done to many residential houses, firms, markets and institutions and charges amounting to Rs. 1,540 were collected during the year.



The Central Malaria Laboratory opened by Hon'ble Sri K. Kamaraj, Chief Minister, Government of Madras on 13-2-1960.



Central Malaria Laboratory at Trevelyan Basin Road—Technicians at work.

NATIONAL MALARIA ERADICATION PROGRAMME, MADRAS CITY.

INTRODUCTION.

The National Malaria Eradication Programme is a venture aimed at eradicating the disease from the entire country and this Programme is being fully implemented by the Corporation of Madras as per pattern laid down. Corporation of Madras began implementing the National Malaria Control Programme from 1955, and the control measures adopted under the National Malaria Control Programme were found to be so effective, and such considerable reduction in the incidence of Malaria achieved, that in 1958 it was found that the City was ready to switch over to a Programme of Eradication from control. The launching and completion of a Programme of Eradication became urgent, in view of the fact that resistance to D.D.T. in certain species of Anopheles was noticed in some countries of the World, and the programme has to be completed before resistance develops in any species in India also.

Madras City is endemic to Malaria. The Anopheles mosquito which transmits Malaria in Madras City is Anopheles stephensi, which breeds in wells, cisterns, overhead tanks, and other clearwater collections. Hence the main plank of control in the City is aimed at the elimination of the larval stages in clear water collections. The periphery of the City is covered with residual D.D.T. spray annually once. The population of the City residing in the endemic areas have been fully protected from 1955, but it was decided that under the National Malaria Eradication Programme, this benefit should be extended throughout the entire City, irrespective of the fact as to whether the areas are endemic or not. For this work, additional staff have been sanctioned during the year and the entire City will be protected from 1961 onwards. During the year under review, 13.29 lakhs of people were protected under the anti-larval measures.

Along with anti-larval measures, Malaria Eradication involves the detection and treatment of all Malaria cases in the City. A Surveillance Organisation was set up to detect all cases of Malaria and 25 Surveillance Inspectors and 100 Superior Field Workers are employed in this work. The Surveillance Staff visit each and every house once every fortnight and make detailed enquiries as to the presence of any case of fever. Blood smears are taken from those cases for examination. The blood smears taken are sent to the Malaria Laboratory, where they are examined immediately. Patients whose blood smears are found positive for Malaria are treated radically with 8 aminoquiniline tablets, so that the patient becomes free from Malaria. All such Malaria cases are followed up once every month by examining their blood smears and any relapse noticed are immediately given radical treatment again.

By thus combining anti-larval measures aimed at destruction of the larval stages of mosquitoes, with treatment of all Malaria cases present, it is expected that total eradication of Malaria can be achieved within the period stipulated.

STAFF.

In August 1960, Sri V. Sivasubramania Pillai assumed charge as Senior Entomologist, National Malaria Eradication Programme, Corporation of

Madras, relieving Sri Khasim Ali Miyan, Senior Entomologist whose services were placed back with the Government. The Senior Entomologist was directly incharge of the National Malaria Eradication Programme in the entire City during the year under review.

For extending the anti-larval operations throughout the entire City, additional staff of Malaria Supervisors, Attenders and thozhilalies were sanctioned by the Council. Employment of 100 Superior Field Workers and 25 Surveillance Inspectors was also approved by the Corporation Council. Additional posts of Laboratory Technicians were also sanctioned during the year to cope up with the increased work load in the Laboratory.

The following table gives the strength of staff at present working and the additional staff sanctioned :—

Present Staff—

Senior Entomologist ...	1
Malaria Supervisor ...	1
* Malaria Supervisors ...	2
* Laboratory Technician ...	1
Typist ...	1
Attenders ...	8
* Stegomya Overseer ...	1
* Maistries ...	2
* Fish Gang Maistries ...	3
* Literate Thozhilalies ...	2
Drivers ...	2
Thozhilalies ...	55
* Fish Gang thozhilalies ...	8

* (Staff diverted from the General Malaria Section temporarily to the Malaria Eradication Programme).

Additional Staff—

Entomological Assistant ...	1
Malaria Supervisors ...	4
Laboratory Technicians ...	2
Assistant Malaria Supervisors ...	8
Upper Division Clerk ...	1
Mechanic ...	1
Peon ...	1
Watchman ...	1
Attenders (for one year) ...	18
Attenders (for five months) ...	12
Thozhilalies (for one year) ...	25
Thozhilalies (for five months) ...	60

Surveillance Staff—

Surveillance Inspectors ...	25
Superior Field Workers ...	100

Evaluation of Eradication Programme.—The progress of the Eradication Programme is assessed by the morbidity statistics collected from the various dispensaries and hospitals, by the number of Malaria cases detected by the Surveillance Organisation, and by investigations on the effectiveness of the anti-larval measures.

A. Morbidity Rate.—Upto 1955 the number of Malaria cases treated in Corporation Dispensaries ranged from 6,000 to 7,000 per annum. After the implementation of National Malaria Control Programme, the morbidity figures have shown a continuous decline, and only 129 cases clinically diagnosed as Malaria were treated at all the Corporation dispensaries during 1960. It can be seen that the number of Malaria cases treated in 1959 was 1,077 whereas it was 129 in 1960. The following table gives the number of Malaria cases treated with percentage of Malaria cases to total admissions, from the year 1955 :—

Year.	No. of Hospitals and dispensaries.	Total No. of out-patients in Hospitals and dispensaries.	Treatment for Malaria cases only.	% of Malaria cases treated to total No. of cases treated of out-patients.
1955 ...	40	13,96,381	5,050	0.362
1956 ...	40	16,36,269	2,650	0.16
1957 ...	43	16,75,037	2,821	0.16
1958 ...	45	13,27,883	2,701	0.2
1959 ...	50	15,54,187	1,077	0.06
1960 ...	50	14,65,330	129	0.009

The percentage of Malaria cases treated in six of the Corporation dispensaries which are situated in the endemic areas of the City are furnished below:—

Dispensaries in Malarious area.	Malaria morbidity rates.					
	1955 %	1956 %	1957 %	1958 %	1959 %	1960 %
Moffuskhan Dispensary ...	0.01	0.001	0.001	0.00	0.002	0.01
Mannady Dispensary ...	1.40	2.2	0.001	0.07	0.32	0.00
Mint Dispensary ...	0.55	0.3	0.01	0.07	0.007	0.00
Muthialpet Dispensary ...	0.005	0.48	0.00	0.00	0.00	0.00
Seven Wells Dispensary ...	...	0.57	0.32	0.08	0.06	0.002
Trevelian Basin Dispensary.	...	0.45	0.18	0.03	0.0002	0.00
Average ...	0.51	0.35	0.09	0.0004	0.047	0.005

The continued reduction in the number of cases treated is evident from the above table.

Graph No. I gives the annual Hospital morbidity rate from the year 1955.

B. Surveillance.—This limb of the Eradication Programme is in force from May 1960. The Surveillance staff visit each house-hold once every fortnight, and have been able to detect all cases of fever and thereby bring to light Malaria cases also. The Surveillance staff attached to the Corporation of Madras cover 77 Divisions and the remaining 23 Divisions in South Madras are covered by the staff of the State Government.

The following table gives the number of fever cases detected and the number of Malaria cases brought to light through the Surveillance staff :

Month.	No. of fever cases detected.	No. of Blood smears taken.	No. positive for Malaria.			Per cent.	Remarks.
			v.	f.	m.		
May 1960 ...	375*	102	...	...	...	...	* Includes 73 cases detected in April 1960.
June 1960 ...	675	313	...	...	...	...	
July 1960 ...	1,385	587	...	...	...	...	
August 1960 ...	2,268	1,896	...	...	...	...	
September 1960 ...	3,715	3,540	3	...	...	0.08	
October 1960 ...	2,492	2,145	1	...	...	0.04	
November 1960 ...	4,525	3,426	2	...	...	0.04	
December 1960 ...	3,404	3,165	1	1	...	0.06	
Total ...	18,839	15,174	7	1	...	0.04	

About 12 lakhs of people reside in the areas covered by the Surveillance Organisation attached to Madras Corporation. Among this population the total number of fever cases recorded was 18,839 and Malaria cases detected 8. This works out to a percentage of 0.04% of Malaria cases among the fever cases.

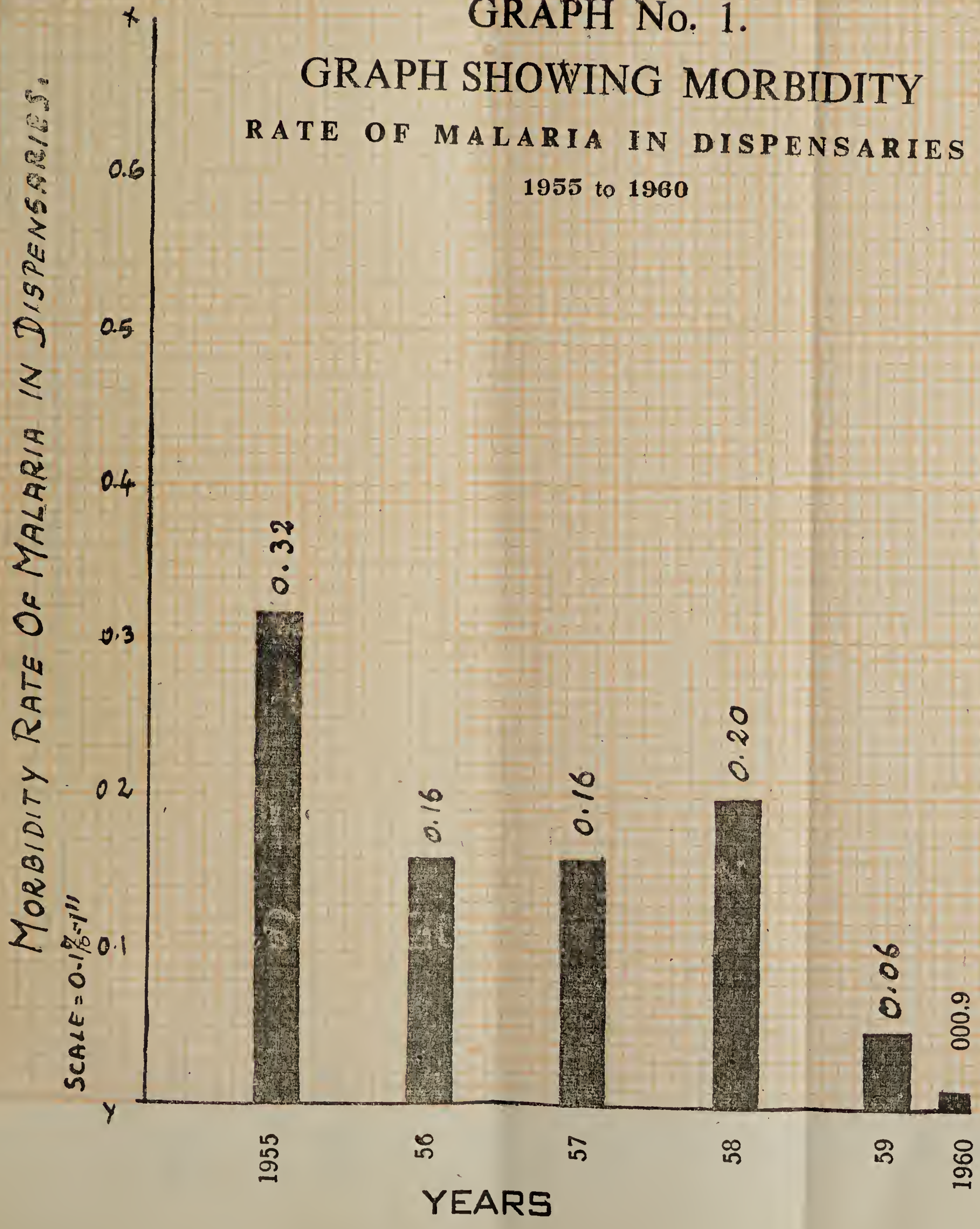
Graph No. II gives the monthwar data in this respect.

Blood Smears from Dispensaries.—All the Medical Officers incharge of Corporation Dispensaries were requested to send blood smears of the cases clinically diagnosed as Malaria by them for examination at the Malaria Laboratory. They have been supplied with sufficient quantity of microslides, etc., for this purpose. A total No. of 607 blood smears were received during 1960, out of which 7 were found to be positive for Malaria parasite. The following table gives the number of blood smears received during each month, with the results of the examination :—

GRAPH No. 1.

GRAPH SHOWING MORBIDITY RATE OF MALARIA IN DISPENSARIES

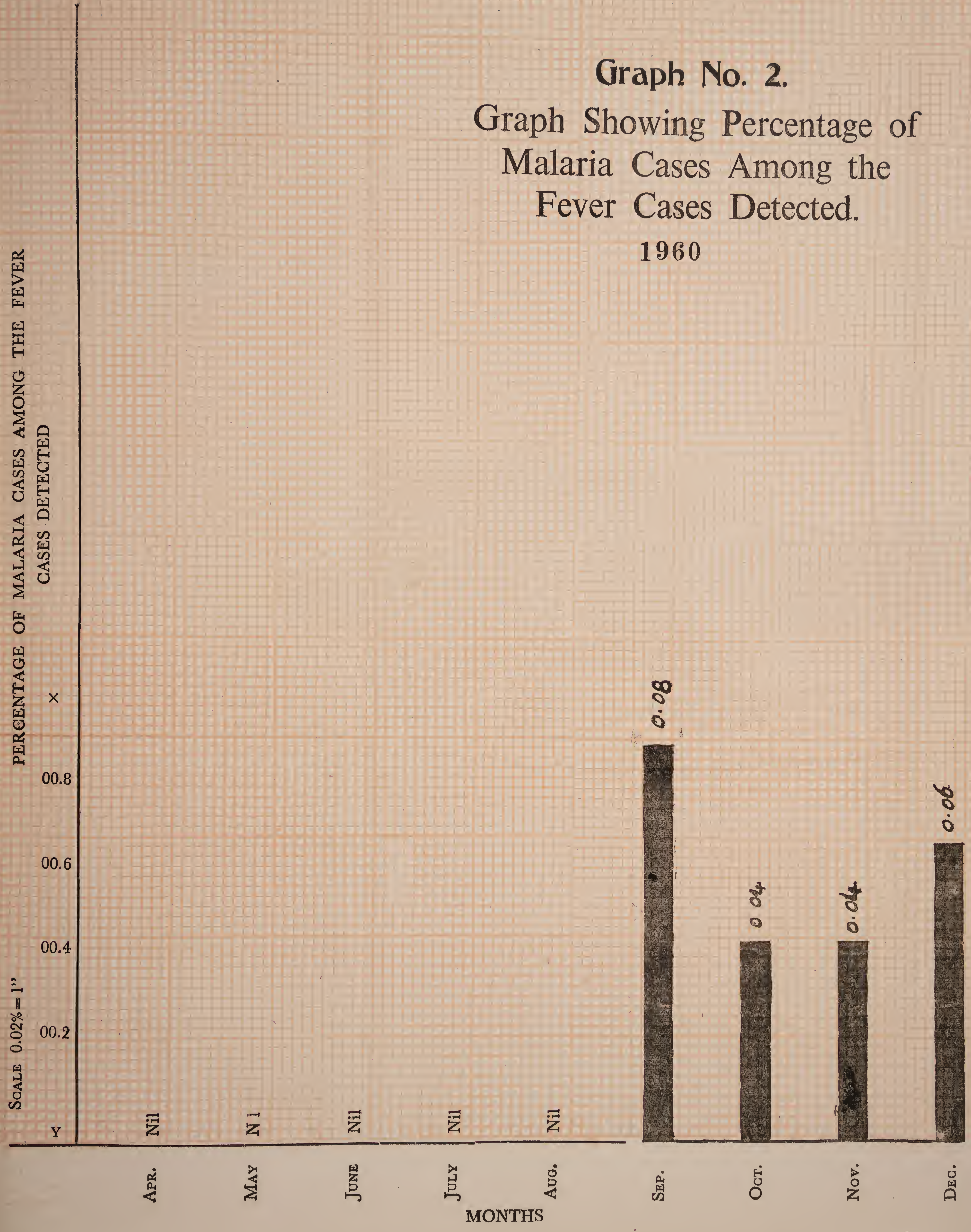
1955 to 1960



Graph No. 2.

Graph Showing Percentage of Malaria Cases Among the Fever Cases Detected.

1960



Month	No. of blood smeares		No. of positive	Plasmodium			Per cent	Remarks
	Received	Examined		v.	f.	m.		
January 1960 ...	3	3	1	...	1	...	33.33	
February 1960 ...	1	1	...	...	...	...	...	
March 1960 ...	9	9	1	...	1	...	11.11	
April 1960 ...	5	5	1	1	...	...	20.0	
May 1960 ...	3	3	2	1	1	...	66.67	
June 1960 ...	5	5	...	...	...	...	...	
July 1960 ...	43	43	...	...	...	...	...	
August 1960 ...	241	241	1	1	...	...	0.415	
September 1960 ...	166	166	...	...	...	...	...	
October 1960 ...	87	87	...	...	...	...	...	
November 1960 ...	32	32	1	1	...	...	3.125	
December 1960 ...	12	12	...	...	...	...	...	
Total ...	607	607	7	4	3	...	1.153	

All cases found positive for Malaria parasite, were treated radically with 8 aminoquinoline tablets.

Entomological Survey.—Regular daily collections of adult and larval stages of mosquito are made to assess the effectiveness of the Programme. The following species of Anopheles were recorded during the year.

1. A. Subpictus.
2. A. Vagus.
3. A. Stephensi.

The man-hour of adult mosquito density in human and mixed dwellings and cattle sheds are furnished below :

Kind of place	Total man-hours spent	Total Anopheles collected	10 man hours	No. of A. Stephensi collected	10 man-hours	Remarks.
H.D. and M.D.	365	1,237	33.89	5	0.137	
C.S. ...	121.50	717	58.85	8	0.657	
	486.50	1,954	39.932	13	0.0267	

It can be seen that the density of adult Anopheles mosquitos are very low. This has been achieved by systematic anti-larval measures. The aim of anti-larvel measures are to keep the mosquito density in any given place so low that transmission of Malaria cannot occur. In the City, Anopheles stephensi is the carrier of Malaria and only 13 A. stepehnsi were caught during the entire year. This reflects the effectiveness of the anti-larval measures adopted.

Larval Survey.—In addition to adult collections, larval investigation squads were also organised to evaluate the effectiveness of the anti-larval measures. A total number of 10,116 wells were cross-checked during the year out of which 453 were found breeding Anopheles. Among this, only 360 wells showed the presence of A. Stephensi larvae. The statement below gives the particulars of the work carried out by the investigation squads. The percentage of wells showing. A. Stepehnsi breeding out of the total wells searched works out to 3.56%.

Months	No. of wells searched	No. of wells found breedings		Total	A. Stephensi.	%
		Anophelines	Culicine			
January 1960 ...	1,064	36	58	94	27	2.548
February 1960 ...	837	5	18	23	4	0.48
March 1960 ...	693	10	18	28	7	1.01
April 1960 ...	536	8	21	29	8	1.49
May 1960 ...	636	23	49	72	17	2.66
June 1960 ...	799	44	33	77	29	3.63
July 1960 ...	1,185	49	57	106	31	2.62
August 1960 ...	1,131	64	76	140	53	4.69
September 1960 ...	1,012	66	70	136	54	5.33
October 1960 ...	1,129	60	56	116	55	4.87
November 1960 ...	666	41	49	90	28	4.2
December 1960 ...	429	47	31	78	47	1.96
Total ...	10,116	453	536	989	360	3.56

Invariably it was noticed that the breeding of mosquitoes had occurred in wells where the owners had refused to admit our staff for attending to the wells.

Graph III shows the percentage of wells breeding A. stephensi during 1960.

Anti-parasite measures.—With the implementation of the Surveillance Programme, the work of distribution of anti-parasitic drugs was mainly carried out by the Surveillance staff. Whenever a fever case is detected by the Surveillance worker, the appropriate dosage of 4 aminoquinoline tablets are immediately administered. If any of the fever case is found positive for Malaria, radical treatment is given immediately. A total No. of 41,700 doses of 4 aminoquinoline tablets were distributed to 13,342 fever cases during the year. 135 doses of 8-aminoquinoline tablets were administered under radical treatment.

Anti-larval measures.—The anti-larval measures against the breeding of A. stephensi in wells, cisterns, overhead tanks, etc., were systematically carried out during the year. It was noticed that many house-holders were refusing to get their wells treated with aromex emulsion since the addition of aromex emulsion gave a slight smell to the well water. To overcome this opposition from the public, a complete resurvey of the entire City was carried out, and all wells classified as 'used' and 'unused' wells. Wherever the people use the well water, such wells are classified as 'used' wells. Larvivorous fish have been introduced in all these 'used' wells and aromex emulsion is used in 'unused' wells. By this method, the number of refusals have considerably come down and the anti-larval measures have become more effective.

During the year under review an average of 11,951 wells were treated with aromex emulsion every week and 2,341 wells stocked with larvivorous fish.

The quantity of aromex spent during the year 1960 and the average number of wells covered per week under Aromex emulsion and larvivorous fish are furnished below :—

Total quantity of aromex spent during the year	...	2,765 gls.
Average number of wells covered per week under aromex.		11,951 ,,
Average number of wells stocked with Gumbusia fish	...	2,341 ,,

Cost.—A total sum of Rs. 77,318-80 nP. was spent during the year under the National Malaria Eradication Programme. This excludes the pay and allowances of staff diverted from General Malaria Section. The details are furnished below :—

		Rs.	nP.
Establishment	...	19,613	32
Labour	...	39,457	60
Contingencies	...	18,247	79
Total	...	77,318	71

This works out to a cost of 0-05 nP. per head per annum in the City.

Motor Transport.—Two Dodge Power Wagons supplied in 1955 under the Indo-American Aid continue to serve the National Malaria Eradication Programme. The particulars of the expenditure of Petrol, Oil and Lubricants along with the number of miles run are furnished hereunder :—

Register No. of vehicles.		*Number of miles run.*	*Expenditure.*				
			Petrol.	*Oil.*		*Lubricants.*	
			Rs.	Rs.	nP.	Rs.	nP.
MSY : 1399	...	6,635	2,478	27	49	779	39
MSY : 1407	...	8,175	3,276	27	48	800	40

Supplies.—The following table gives the particulars of supplies received as Central Aid during the period 1955 to 1960 :—

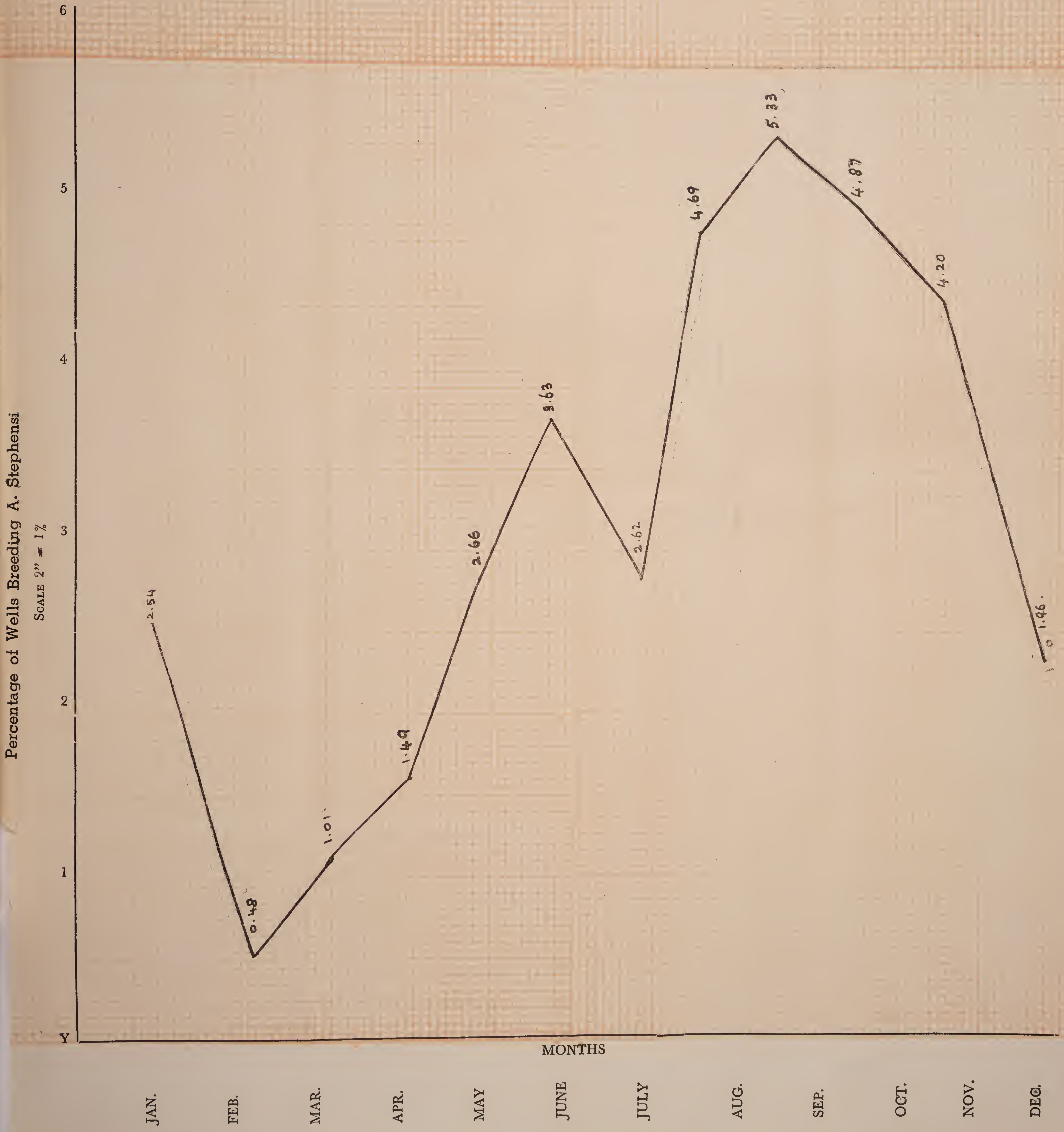
		1955	1956	1957	1958	1959	1960
Equipments—							
Trucks	...	2	...	...	...	...	...
Power sprayers	...	1	...	...	...	...	...
Hand Compression sprayers	...	12	...	...	...	...	...
Stirrup pumps	...	30	...	...	21	...	...
Drugs—							
Resocbin	...	740	...	...	...	...	...
Nivaquine	...	1,000	...	...	...	...	13,000
Avlochlor	...	...	...	10,000	...	...	...
Chloroquine	...	...	...	...	...	...	21,500
Primaquine	...	...	...	...	...	...	3,000

Graph No. 3.

Graph Showing Percentage of Wells

Breeding A. Stephensi

1960



Insecticides :

	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.
DDT 75% wettable.	1,39,000	75,422	30,095	20,500	...	...
Dieldrin 50% wettable	600	1,000	400	...	...	...

Issues of the items received as above are shown below :

	1955	1956	1957	1958	1959	1960
Drugs :						
Resochin ...	...	740	...	...	...	...
Nivaquine ...	793	207	...	...	...	13,000
Avlochlor ...	...	...	925	806	759	7,200
Chloroquine ...	...	...	...	...	...	21,500
Primaquine ...	...	...	...	...	...	135

Other Activities.—Laboratory investigations to find out the mortality rate of mosquitoes from different parts of City were regularly carried out.

Two Surveillance Inspectors were given training by the Senior Entomologist at the Malaria Laboratory.

Conclusion.—The National Malaria Eradication Programme is a gigantic venture aimed at wiping out Malaria from the country, and the Corporation of Madras is actively implementing the programme in the City. 13.29 lakhs of people were protected during the year under anti-larval measures. Anti-larval measures are being extended throughout the entire City from 1961, for which additional staff have been sanctioned. The number of malaria cases treated in the Corporation dispensaries during the year 1960 was 129 as compared to 1,077 cases during the year 1959. This works out to a percentage of 0.009 during 1960 as compared to 0.06 during the previous year. This remarkable reduction in the number of Malaria cases in the City is directly attributable to the work being done under the National Malaria Eradication Programme. The implementation of the Surveillance Programme has brought to light the existence of a few reservoirs of the infection in the city and by treating these cases radically, the spread of the disease has been prevented. By a combination of intensive anti-larval measures and surveillance, it is expected, that the Eradication Programme will end in success.

SANITATION

The sanitation part of the Health Administration of the City was under the direct control of the Health Officer, Dr. B. V. Sundara Babu, M.B.B.S., D.P.H. (Cal.), and during the year under review he was assisted by the following Assistant Health Officers:—

(1) Dr. P. V. Balakrishna Marar, L.M.&S., B.S.Sc.
(2) Dr. I. Gopalakrishnan, B.A., M.B.B.S., B.S.Sc.
(3) Dr. N. Dakshinamurthy, M.B.B.S., B.S.Sc.
(4) Dr. P. R. Krishnamurthy, M.B.B.S., B.S.Sc., T.D.D., F.C.C.P.
Dr. K. Narayanamurthy, M.B.B.S., T.D.D. (Acted from 19-9-1960 to 31-12-1960 in the leave vacancies).

The City which was divided into 100 divisions was looked after by the four Assistant Health Officers each being in charge of 25 divisions. 61 Sanitary Inspectors were directly incharge of the sanitation of the divisions.

FOOD SANITATION

Hotel Sanitation :

1.	No. of renewal applications received for licences for Food Handling Establishments under Section 279 of M.C.M. Act.	2,861
2.	No. recommended	2,695
3.	No. refused	162
4.	No. pending	4
5.	No. of new applications received under Section 279 ...	122
6.	No. recommended	107
7.	No. refused	14
8.	No. pending	1
9.	No. of Coffee Hotels with meals section	169
10.	No. of Coffee Hotels without meals section	302
11.	No. of Eating Houses only	725
12.	No. of Tea Clubs	216
13.	No. of Tea Stalls, Tea Shops or Tea Standes	975
14.	No. of Canteens attached to firms, offices, etc.	102
15.	No. of Mobile Canteens	5
16.	No. of Lodging Houses without boarding facilities registered under Public Health Act	112
17.	No. of Lodging Houses with boarding facilities registered as well as licensed under the Madras City Municipal Act	53

Prevention of Food Adulteration.—On the executive side there were five Food Inspectors in charge of five ranges of the City posted solely for taking samples of foodstuffs under the provisions of the Prevention of Food Adulteration Act of 1954 under the direct supervision of the Assistant Health

Officers. Each Food Inspector is entrusted with the task of detecting adulteration of foodstuffs in the area of 20 divisions under his jurisdiction by taking samples and booking the offenders to be convicted by the Courts.

On the Technical side, the samples taken by the Food Inspectors and Assistant Health Officers continued to be analysed in a fully equipped Laboratory manned by an experienced Public Analyst and his seven assistants and other technicians. The total number of samples of milk, butter, ghee, gingelly and other oils, tea, ghee substitutes, turmeric, arrowroot, honey and other articles analysed during 1960 was 8,377. Out of which 5,972 were found to be genuine and the remaining 2,406 adulterated. The percentage of adulteration worked out to 28.7 as against 27.8 in 1959. The percentage of milk samples alone found adulterated during the year was 43.2 as against 42.2 in 1959. In order to prevent the adulteration of milk, the question of licensing the milk vendors, cattle yard owners, and the dealers importing milk from the surrounding parts of the City is under consideration as it will help to a larger extent to have a proper check in the matter of taking action whenever adulteration is detected. Formation of organised Co-operative societies for supply of good milk to the citizens will effectively diminish the chances of adulteration.

Milk Sanitation

1.	No. of applications received for licences for milk trade under Section 299 of Madras City Municipal Act ...	788
2.	No. recommended	658
3.	No. refused	128
4.	No. pending	2
5.	No. of licensed milk-men	1,010
6.	No. of licences renewed for old depots other than those of Madras Co-operative Milk Supply Union	265
7.	No. of milk deposed of the Madras Co-operative milk Supply Union for which licences were renewed. ...	39
8.	No. of new milk depots opened by the Union during the year	2
9.	No. of licensed milk depots	241
10.	No. of notices for effecting improvements issued in respect of item 9	100
11.	No. prosecuted for non-compliance	35
12.	No. improved and made fit for licensing	73
13.	No. closed as a result of action taken	4

Market Sanitation

In the City there were 12 public and 48 private markets during the year.

Public Markets.—The 12 public markets in the City maintained by the Corporation were under the charge of the concerned Market Superintendents or Sanitary Inspectors of the divisions with regard to sanitation and maintenance of order in the markets. The markets were daily washed by the labour staff posted for the purpose and kept in a clean condition. Deflying of markets was also done periodically by the Malaria staff of the particular range or division.

The names and location of the public markets are given below :—

S. No.	*Div. No.*	*Name and location of market.*
1	29	Dr. Malliah Market, Wall Tax Road.
2	40	Smith Field Market, Rotlers Street, Choolai.
3	45	Ayanavaram Daily Market, Market Street, Ayanavaram.
4	51	Shenoy Nagar Market, Shenoy Nagar.
5	52	Market at the junction of Taylors Road and McNicholl's Road.
6	53	Jagannathapuram Market, Jagannathapuram 3rd Street Chetput.
7	64	Fruit Market, N.S.C.B. Road.
8	64	Moore Market, Poonamallee High Road.
9	80	Nadukuppam Market, Nadukuppam, Triplicane.
10	93	T.Nagar Vegetable Market, 61-A, Thyagaraya Nagar Road.
11	93	T.Nagar Meat Market, 39, Theagaraya Road.
12	98	Razaack Market, 14/6, Bazaar Road, Periapet, Saidapet.

(In addition to these there is a pavement vegetable market on the western side of Panagal Park, T.Ngar, Division No. 93.)

Private Markets.

48 Markets were run by private owners. With the exception of a few, all of them were licensed under the Madras City Municipal Act during the year and subjected to daily inspection by the divisional Sanitary Inspectors and supervisory staff of Health Department, to ensure proper sanitary upkeep and prevention of sale of rotten fruits, vegetables and other foodstuffs unfit for human consumption. Besides this, at the time of renewal of linceses, for the year the markets were thoroughly inspected by the Assistant Health Officers along with the Sanitary Inspectors and the owners were insisted on attending to annual repairs, whitewashing and colourwashing and any other important improvements required for the markets in the interest of sanitation and public health and making special arrangements to keep the mutton and fish stalls in a clean condition.

The other private mutton stalls in different parts of the City outside of the market premises were also inspected by the Sanitary Inspectors periodically and instructions given to the parties wherever necessary, for the proper maintenance in accordance with the conditions of licences and to prevent sale of stale or unstamped meat.

The names with location of private markets existing during the year 1960 were given below :—

S . No.	Dn. No.	Location
1	1	Tondiarpet Market, 11, Thandavaraya Gramany Street.
2	1	New Washermenpet Market, 322, T.H. Road.
3	3	Kalmandapam Market, 13/12, Kalmandapam, Road.
4	5	Washermenpet Market, 5/6, Venkatakrishna Street.
5	6	Pitchandi Nadar, 82/83, Narasier Street.
6	8	Royapuram Market, 16, Mannarswamy Koil Street.
7	13	Macdonald Market, Ramaswamy Street.
8	14	Olakadai Market, 180, Angappa Naicken Street.
9	15	Mannady Market, 88/90, Mannady Street.
10	17	Seven Wells Market, 111, Govindappa Naicken Street.
11	18	Chengam Bazaar Market, 84/85, Nattu Pillaiar Koil Street.
12	19	Kothwal Market, 1, Audiappa Naicken Street.
13	25	Kondithope Market, 32, Peddu Naicken Street.
14	31	Lakshmi Market, 5, Selvavinayagar Koil Street.
15	32	Vyasarpady Market, 15, Erukancheri High Road.
16	34	Ottery Market, 120, Strahans Road.
17	36	Demellows Market, 124, Demellows Road.
18	39	Choolai Market, 37, Vijayavigneswarar Koil Street.
19	41	Balachandra Chetty Market, 49, Market Street.
20	42	M. J. Abdul Kadar Market, 17, Madavaram High Road.
21	44	Othavadai Market, 22/2, Toll Gate, Othavadai Street.
22	48	Kandaswamy Koil Trust Private Market, 3, Pudu Street.
23	51	Aminjikarai Market, 326, Poonamallee High Road.
24	54	Village Road Market, 17, Village Road, Nungambakkam.
25	55	Kodambakkam Market, 54, Kodambakkam High Road.
26	57	Thousand Lights Market, 41/56, Mount Road.
27	62	Purasawalkam Market, 27, Purasawalkam High Road.
28	64	Ellamman Devasthanam Market, Veeraswamy Pillai Street.
29	64	1-C, A. C. Charities Market, 314, Wall Tax Road.
30	66	Chintadripet Market, 17, Arunachala Naicken Street.
31	67	Egmore Market, 92, Egmore High Road.
32	68	Connemara Market, 32, Harris Road.
33	71	Moulana Market, 730, Triplicane High Road.

S. No.	*Dn. No.*	*Location.*
34	72	Moosa Sait Market, 91, Venkatesa Naicken Street.
35	76	Zambazaar Market, 428/434, Pycrofts Road.
36	76	New Janda Market, 291, Triplicane High Road.
37	78	Mirsahibpet Market, 184, Venkatachala Mudali Street.
38	78	Sultan Market, Royapettah High Road.
39	81	Azeez Market, 71/1, Mount Road, Teynampet.
40	82	Tannithorai Market, 75, Royapettah High Road.
41	84	Mylapore Market, 80, Bazaar Road, Mylapore.
42	86	Mandavalli Market, 65, Mandavalli Street.
43	88	Eldams Road Market, 11-A, Eldams Road.
44	90	Arunachalapuram Market, Adyar.
45	92	Vadapalani Market, 140/141, Arcot Road.
46	96	Kasiviswanathar Devasthanam Market, 40-L, Eswaran Koil Street.
47	98	Karaneeswarar Devasthanam Market, 5/6, Jeenis Road.
48	99	Private Market, Perumal Koil Street.

Destruction of the Unwholesome Foodstuffs

Prevention of the sale of unwholesome foodstuffs exposed to dust and flies is one of the important duties of the Divisional Sanitary Inspectors. During the year 1960, cut fruits, vegetables and other edibles kept for sale in front of Markets, Schools and on important road margins in the City were seized and destroyed as per details given below.

Besides this, raids were organized periodically with the aid of a special squad consisting of a sergeant and three thozhilalies in a raid van, for seizing and destroying foodstuffs exposed to dust and flies.

Total quantity of unwholesome foodstuffs seized and destroyed in the City during 1960 :—

S. No.	*Foodstuffs.*	*Quantity.* Lbs.
1	Vegetables	13,190
2	Fruits	13,721
3	Meat	1,742
4	Fish Dried	699
6	Fish	2,996
6	Idlies, Vadai, etc..	16,324
7	Syrup	5,550
8	Carcasses ... ... Nos.	2,351

Slaughter Houses and Meat Hygiene

Food hygiene is the major aspect of Veterinary Public Health. The primary purpose of good meat hygiene is to prevent transmission of disease to human beings through food products. The successful development of Public Health involves problems of improved meat supply. It is with great difficulty that adequate meat inspection has been maintained with the limited facilities provided. The need for a modern public Abbatoir within the City has been stressed on many occasions. The Corporation has applied for grant as well as loan from the State Government for modernising the existing slaughter houses at Perambur and their orders are awaited in this behalf.

There are five slaughter houses run by the Corporation and they are under the charge of Veterinary Surgeons. They are located as follows.

Cattle Slaughter House	1 at Perambur.
Sheep Slaughter Houses	1 at Perambur and 1 at Saidapet.
Pig Slaughter Houses	1 at Petambur and 1 at Saidapet.

The Superintendent, Slaughter Houses is assisted by one Assistant Veterinary Surgeon and a Sanitary Inspector. The meat inspection is done only by the Superintendent or his assistant. After the ante-mortem and post-mortem examination, the inspected carcasses are stamped with indelible ink before passing out as fit for human consumption.

The details of the meat inspection work during the year 1960 are given below :—

Kind of animal slaughtered	No. of animals brought for slughtering	No. of animals condemned after ante-mortem examination	No. actually slaughtered	No. condemned after post-mortem examination		Organs condemned
				Whole carcasses	Portions	
Cattle ...	27,051	Nil	27,051	Nil	365	6,791
Sheep & Goats.	5,59,271	1,224	5,58,047	36	Nil	9,491
Pigs ...	5,030	Nil	5,030	2	25	375

The fees collected towards issue of meat inspection certificates for the export of beef during the year amount to Rs. 2,240.

During the year under review students from the Medical Colleges and other institutions in the City and also outside visited the Slaughter Houses. They were given all facilities to study the working of the Slaughter Houses, and short lectures were also given to them on Meat Hygiene and Zoonoses with practical demonstration regarding "Meat Inspection."

Students from the Madras Veterinary College were regularly attending the Slaughter Houses in the evenings in batches accompanied by the concerned lectures for classes on "Meat Hygiene and Genetics." Flaying classes for the butcher boys, Livestock Inspectors and Block Development Officers from the districts were also conducted in the Slaughter Houses by the State Animal Husbandry Department.

Blood Meal.

During the year, the blood from the cattle and the sheep slaughter houses at Perambur was collected daily and removed in a trailor tank attached to the tractor to the Blood Meal Manufacturing Centre at Kodungaiyur. At the Centre, the collected blood is boiled and dried in the sun. The dried blood meal is powdered and stored and sold as manure to the public and the fertilizer manufacturing firms. During the year 1960, blood meal was sold for Rs. 12,662-75 nP.

Meat Inspection.

1.	No. of Private Mutton Stalls at the beginning of the year.	133
2.	No. of Mutton Stalls opened during the year ...	
3.	No. of Beef Stalls at the beginning of the year ...	49
4.	No. of Beef Stalls opened during the year ...	5
5.	No. of Pork Stalls at the beginning of the year ...	Nil
6.	No. of Pork Stalls opened during the year ...	Nil
7.	No. of unstamped carcasses seized ...	412
8.	No. of cases of illicit slaughter detected ...	2

Environmental Sanitation.

Housing :—

1.	No. of houses other than huts in the City ...	1,13,187
2.	No. of houses used for dwelling purposes ...	1,01,468
3.	No. of houses used for purposes other than dwelling ...	11,048
4.	No. of huts ...	45,052
5.	No. of building applications received from the Works Department ...	201
6.	No. recommended for sanction in item No. 5 ...	165
7.	No. of building applications recommended for refusal on sanitary grounds ...	36
8.	No. of tenements built prior to 1-1-1960 ...	Nil
9.	No. of tenements built prior to 1-1-1960 and brought under occupation in 1960 ...	Nil
10.	No. of tenements built and brought under occupation in 1960	Built 224 Occupied 34
11.	No. of tenements under construction at the end of the year 1960 ...	328

House Inspection.

1.	No. of houses inspected as a routine measure	33,606
2.	No. of houses inspected on complaints made	2,995
3.	Average No. of houses inspected per mensem	1,219
4.	No. of houses found untenanted	193
5.	No. of houses found defective for want of protected water supply	692
6.	No. of houses defective for want of ventilation	1,552
7.	No. of houses found defective for want of proper drainage arrangements	1,023
8.	No. of houses found defective otherwise	3,048
9.	No. of notices issued for rectification of defects	2,687
10.	No. prosecuted for non-compliance	380
11.	No. of houses repaired as a result of action taken	3,535

Latrine Accommodation.

1.	No. of houses found without any latrine	866
2.	No. of notices issued in respect of item No. 1	411
3.	No. of houses provided with latrine accommodation as the result of action taken	296
4.	No. of houses found defective for want of adequate latrine accommodation	254
5.	No. of notices issued in respect of item No. 4	254
6.	No. of houses provided with additional latrine accommodation as a result of action taken	153
7.	No. of houses in sewered areas without F.O Ls.	620
8.	No. of notices issued for conversion of masonry latrines into F.O.Ls.	585
9.	No of houses wherein the masonry latrines were converted into F.O.Ls. as a result of action taken	213

Cesspools.

1.	No. of houses with cesspools	5,557
2.	No. of houses without cesspools	9,507
3.	No. of notices issued in respect of item No. 2	105
4.	No. of houses provided with cesspools as a result of action taken	105
5.	No. of notices issued in respect of inadequate cesspools.	35
6.	No. of houses provided with enlarged cesspools as a result of action taken	34

Home for Homeless.

The five Homes provided for temporary accommodation of people coming from mofussil places in search of employment in the City continued to be full during the year.

The location of the Homes with the available accommodation and strength is given hereunder :—

S. No.	Dn. No.	Location of Homes.		Accommodation available for persons.	Strength maintained.
1	13	Ibrahim Sahib Street	...	40	40
2	27	Wall Tax Road	...	100	100
3	63	Behind Zoo	...	105	105
4	70	Ritchie Street	...	172	172
5	80	Gajapathy Lala Street	...	20	20

Dhobikhanas.

The Corporation continued to maintain seven dhobikhanas in the City satisfactorily. During the year under review more facilities were provided to the dhobies by improving the water supply, and increasing the number of stones wherever possible. An electric pump has been provided to the Dhobikhana in New Washermanpet.

In addition to these, construction of a new dhobikhana at Saidapet was under progress during the year. Government has granted 2 lakhs rupees as a loan for the purpose.

The location of Dhobikhanas with the number of stones provided in each of the existing dhobikhanas in the City is given below :—

S. No.	Dn. No.	Location.		No. of stones provided.
1	1	Buchiammal Street	...	40
2	9	Robinson Park	...	62
3	35	Ekangipuram 1st Street	...	6
4	48	Conran Smith Nagar	...	52
5	53	School Road, Jagannathapuram	...	118
6	54	Pilliar Koil Street, Chetput	...	36
7	82	Kosapet Mylapore Apparsamy Koil Street	...	22

Protected Water supply.

The City continued to receive the supply of protected water from the Kilpauk water works and infiltration gallery wells at Sembiam and Saidapet. The detailed report of Water Analyst on the periodical analysis of water supplied to the City and its quality is appended to this report. Slum dwellers in the extended areas were also supplied with protected water through lorries of the Water Works Department. Besides these, a number of steel tanks and masonry tanks were constructed in several parts of the City and they were stored with protected water for the use of the public.

The details of the above are given below :—

Total No. of Steel Tanks ...	800 Gls.	42 Nos.
Do. ...	400 ,,	1 No.
Total No. of Masonry Tanks ...	800 ,,	10 Nos.
Total No. of trips made by water lorries ...	87 Trips.	
Total quantity of Red Hills water supplied by the lorries daily ...		21,600 Gls.
Total quantity of Seven Wells do. ...		14,400 ,,
Total quantity of Ganapathy Colony Well Water supplied by the lorries daily ...		9,600 ,,
		45,600

Swimming Pools.—The two swimming pools one at People's Park adjoining to My Lady's Garden and the other at Marina Beach continued to be maintained satisfactorily during the year 1960 and training was given to young boys and girls seeking to learn swimming, by the instructors posted there.

Conservancy.—The Cleansing Department was in charge for collection and disposal of rubbish and sullage water besides keeping the City roads clean and tidy.

Sewers and F.O.Ls.—During the year under review 8.70 miles of sewers were laid in the areas as per the details given below :—

Statement showing the length of sewers laid in 1960.

Serial number.	Name of area.	Length of sewer laid (in feet).	Remarks.
1	Tondiarpet ...	3,552	
2	Royapuram ...	344	
3	Perambur ...	1,447	
4	Venkatesapuram ...	945	
5	Ekangipuram ...	40	
6	Nammalwarpet ...	734	
7	Purasawalkam ...	4,107	
8	Ayanavaram ...	2,237	
9	Sembium ...	190	
10	Kilpauk ...	2,654	
11	Shenoy Nagar ...	2,229	
12	Chetput ...	154	
13	Greames Road ...	2,111	
14	Ice House Road ...	783	
15	North Mylapore ...	9,767	
16	South Mylapore ...	505	
17	T. Nagar ...	7,039	
18	Saidapet ...	7,089	
	Total ...	45,927 Ft. or 8.70 miles.	

Health Education and Propaganda.

The Health Education and Health Prpaganda work in the City continued to be under the overall supervision and direction of Dr. P. S. Sambandam Director, Ashok Vihar, who was entrusted with this important additional work.

As in the previous years, the Health Education consisted of film-shows, general propaganda with the Public Address Loudspeaker Equipment on prevention and control of various Infectious Diseases like Small-pox, Typhoid, Cholera and other diseases and also about environmental sanitation and hygiene, need for civic consciousness and co-operation from the public.

Health Department also took an active part and assisted the Conservancy Department in the City cleaning campaign week during April 1960.

World Health Day Celebrations.—The World Health Week was inaugurated on 18th July, 1960, at the Madras Medical College by Sri M. A. Manickavelu, Minister for Land Revenue and Health. Health Department also participated in the Exhibition on " Malaria Eradication " held at the Medical College between the 18th and 20th and exhibits from the National Malaria Eradication Programme and Health Education sections were displayed along with those brought from the Director of Public Health Office. Subsequently on the 21st and 22nd, our exhibits were removed to the Corporation Schools at Tondiarpet and Washermanpet. These miniature exhibitions arranged as a special feature this year, were manned by the surveillance workers of the National Malaria Eradication Programme and the Health Propaganda Staff.

For a week beginning with the 18th, July an intensive campaign on the " Malaria Eradication " was launched and propaganda was done daily throughout the City, especially in hutting grounds and low-lying areas. Special film shows were arranged during this week. Two pamphlets on " Malaria Eradication " received from the Director of Public Health Office were distributed. Slides were also shown in several City cinema houses.

The following table gives the number of propaganda assignments to various divisions for general health.

Education—Field Work.—

Month.	No. of assignments to divisions.	Approximate total No. of audience who attended the health talks, film-shows, etc.
January 1960 ...	Van under breaktest.	Van under breaktest.
February 1960 ...	Do.	Do.
March 1960 ...	8	2,000
April 1960 ...	46	12,000
May 1960 ...	47	12,000
June 1960 ...	44	11,000
July 1960 ...	35	10,700
August 1960 ...	40	11,000
September 1960 ...	41	11,000
October 1960 ...	35	10,000
November 1960 ...	25	9,000
December 1960 ...	13	7,000

1.	No. of trips made by the van with the propaganda staff	500
2.	Divisions covered	100
3.	Total mileage	5,750
4.	Number of times the whole City covered	7 times.

Sufficient number of film shows could not be arranged in the City during the early part of year, due to the unsatisfactory working of the film projector which was subsequently got repaired.

As one van is hardly sufficient to cover the vast areas in the City it is proposed to purchase another van with necessary equipment for propaganda work.

INDUSTRIAL SANITATION—TRADES—LICENCES.

Offensive Trades—

1.	No. of renewal applications received for old offensive trades (Section 287 of Madras City Municipal Act)	9,022
2.	No. of applications recommended	7,681
3.	No. of applications refused	1,295
4.	No. of applications pending	46
5.	No. of new applications received for offensive trades (Section 287)	1,473
6.	No. of new applications recommended	759
7.	No. refused for sanitary reasons other than the prohibition under the Public Health Act	350
8.	No. refused in view of the prohibition under the Public Health Act	364
9.	No. of appeals preferred by the parties to the Standing Committee	188
10.	(*a*) No. of appeals allowed by the Standing Committees	104
	(*b*) No. of appeals rejected by the Standing Committee	76
11.	No. of references made to the Council	75
12.	No. of cases in which the Council reversed the decision of the Standing Committee	8
13.	No. of cases in which the Council upheld the decision of the Standing Committee	61
14.	No. in which the Council's decision was given effect to.	14
15.	No. in which Government instructions or orders were of the sought in respect of Council's decision	49
16.	No. in which Government orders were received	11

Miscellaneous.

1.	No. of Laundries ...	897
2.	No. of Hair Dressing Saloons ...	1,033
3.	No. of Sweet Meat Stalls ...	155
4.	No. of Firewood Depots ...	221
5.	No. of Charcoal Depots ...	233
6.	No. of Charcoal and Firewood Depots ...	433
7.	No. of Aerated Water Factories ...	60

Port Sanitation.

1. Out of 1,201 vessels arriving in this port during the year under review only 68 vessels with 5,142 crew and 11,466 passengers were inspected on arrival during the year. 7 cases of chicken-pox were landed ex 5 vessels, 3 cases of mumps were landed ex 3 vessels and one case of measles was landed ex one vessel on arrival and suitable measures were taken to prevent the spread of these diseases.

2. Out of 1,202 vessels leaving this port during the year under review only 431 vessels with 29,384 crew and 25,001 passengers were inspected at the time of departure for foreign ports. One case of measles, 4 advanced stage of pregnant ladies were detained from embarkation. 7 passengers were detained from embarkation for having immature vaccination certificates.

3. The personal effects of the infected crew and passengers and their contacts as well as 65 cases of imported second hand clothing intended for distribution were disinfected before release.

Bedding, clothing, etc., of 598 new crew were inspected and disinfected before articles were taken on board.

4. Seamen's provisions of 41 vessels were inspected.

5. 41 vessels were examined with regard to the Medical Stores kept on board, they were maintained according to the prescribed scales and wherever necessary suggestions were made to make good the shortage, if any.

6. Imported food stuffs were inspected at the Port of Madras under the Prevention of Food Adulteration Act, 1954 and on request from the Traffic Manager, Madras Port Trust in connection with unclaimed articles of food lying in their godowns before auctioning them for sale.

During the year, the following such articles were inspected all of which were declared fit for human consumption :—

1.	Milk Powder	1,324 bags and 1,29,641½ lbs.
2.	Milk Food (Baby) ...	4,37,232 lbs.

3. Butter Milk Powder ...	8,836 lbs.
4. Chicory Powder ...	38 bags and 4,42,220 lbs.
5. Horlicks ...	52 doz. and 55,746 lbs.
6. Food colours ...	95,792 lbs.
7. Ovaltine ...	33,704 lbs.
8. Prunes ...	980 lbs.
9. Cornmeal ...	226 lbs.
10. Almonds ...	1,505 lbs.
11. Glucose ...	18,200 lbs.
12. Sultana ...	2,400 lbs.
13. Cheese ...	108 lbs.
14. Betelnut ...	1,29,654 lbs.
15. Nutmegs ...	36 lbs.
16. Star Anista ...	10,120 lbs.

However the following items were declared unfit for human consumption either after physical examination or after receiving analysis reports to that effect from the King Institute, Guindy :—

1. Wheat ...	35 bags.
2. Milk Powder ...	14 cases.
3. Horlicks ...	13 cartons.
4. Tea Dust ...	8 bags.
5. Nestle's Pan thick cream	3 cases.
6. Corn ...	2 cases.

7. 567 seamen trainees, seamen for continuous certificates of discharge and other candidates for employment as seamen were medically examined and certificates of fitness or otherwise issued.

8. On receipt of radio message from the Masters of 16 vessels at sea seekings medical advice in connection with sickness on board the vessel, necessary advice were sent immediately to the Master concerned.

9. Sanitation of the Port area was looked after by the Madras Port Trust and maintained satisfactorily. Storage tanks of water supply of the port area, were cleaned regularly and water from these sources was analysed at regular intervals. Measures were taken to rectify the defects when noticed.

10. 16 Deratisation Exemption Certificates and 20 permits were issued at this port.

11. 186 vessels seeking Radio Pratique were granted the same on furnishing the requisite messages.

MEDICAL RELIEF.

1. HOSPITALS.

Infectious Diseases Hospital, Tondiarpet.

The Infectious Diseases Hospital continued to attend to the treatment of infectious cases occurring in the City as well as in the adjoining district of Chingleput. Further the hospital affords treatment for cases noticed among the floating-population such as Tourists, Visitors and others who daily pass through this Metropolic City by Land, Sea and Air.

During the year under review, a sump to tap the Red Hills water to augment the existing water-supply has been constructed and put to use. New lay-out of road with garden wherever necessary has been formed within the hospital compound. On diversion of loan of Rs. 2 lakhs approved by Government for effecting improvements to the hospital, several improvement works have been taken up by the concerned departments and the works are in progress. Out of this loan amount 2 "Willys Jeep" chassis have been purchased and the work of building ambulance bodies over the chassis has been entrusted to the Corporation General Workshop. As soon as these Ambulances get ready, they would be stationed permanently at a suitable site in the South Madras for transport of cases to this hospital. Thus the hospital would be having 2 Ambulances for the North and 2 for the South permanently, in the near future.

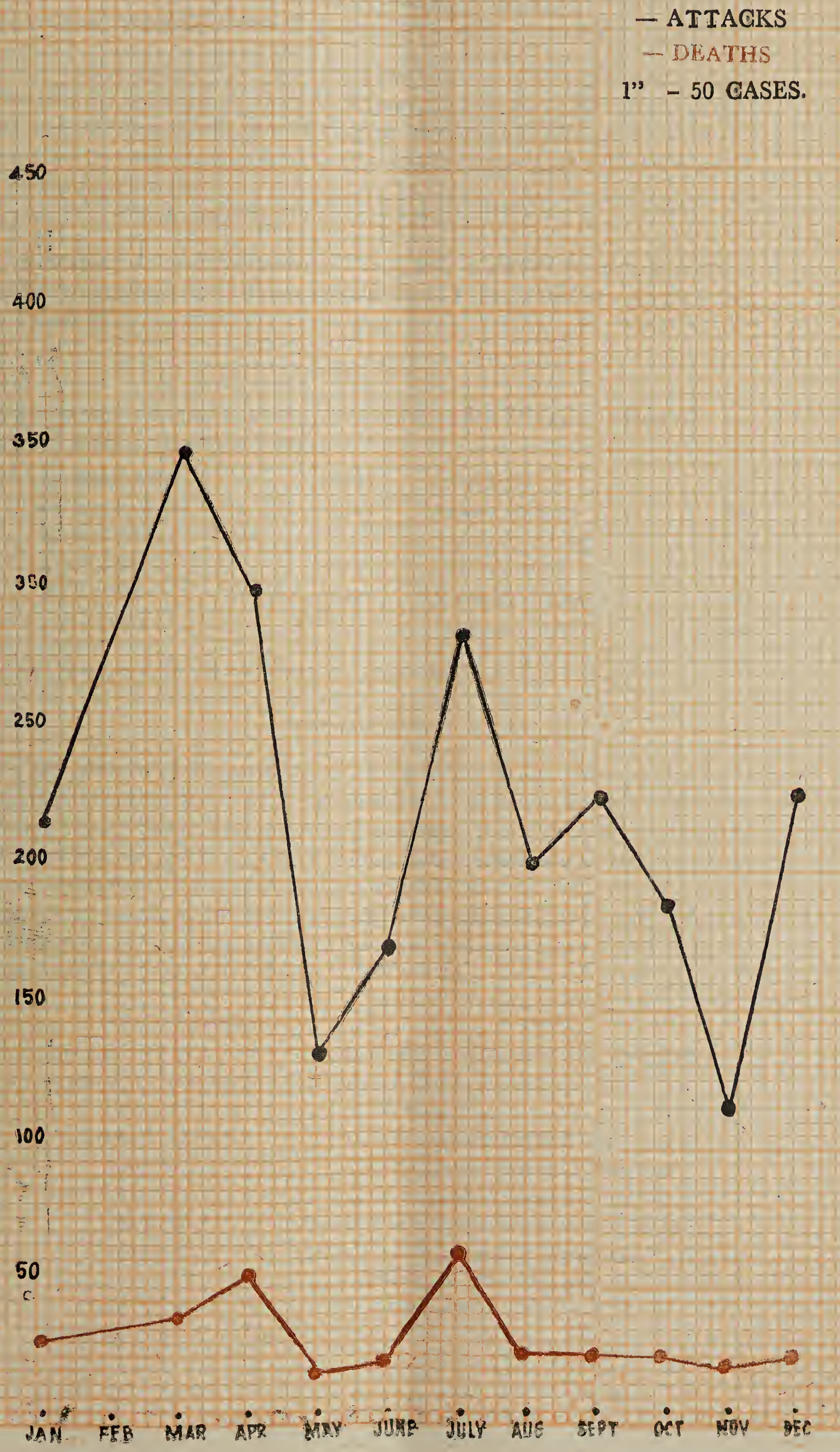
In the month of March 1960, the World Health Organization has deputed experts to study the treatment and diagnosis of Small-pox in the hospital. The experts deputed are—(1) Dr. C. Henry Kempe, Professor and Head of the Dept. of Pediatrics, University of Colorado, U.S.A., (2) Dr. A. W. Downie, Professor of Bacteriology, Liverpool University School of Medicine, England, (3) Dr. T. L. Hobday, Chief Medical Officer of Health, Port Health Authority, Liverpool, (4) Dr. Michael John, Professor of Medicine, Colorado University, U.S.A., (5) Dr. Berge, Virologist, Armed Forces, U.S.A., (6) Mrs. Vincent, Tissue Culture Specialist, Denver and (7) Miss Bowels, Nurse, U.S.A. This Research Team have conducted their experiments here using Gammaglobulin as a preventive against Small-pox for a period of about 3 months from March 1960.

In March 1960, under the guidance of the W.H.O. Research Team, one of the wards of the hospital (i.e., Ward No. 1) has been converted into an INTENSIVE THERAPUETIC UNIT, consolidating all the energy of large number of staff and concentrating only on very acute cases. This scheme has proved to be a great success and is being continued.

The World Health Organization extended an invitation to Dr. A. Ramachandra Rao, Superintendent of the hospital as a 'Visiting Scholar' to undergo further advanced courses of study in Infectious Diseases at their Colorado University, U.S.A., for a period of about one year. With the permission of the Commissioner and with the sanction of the City Council, the

SMALL POX ATTACKS AND DEATHS

DURING 1960



Superintendent has been permitted to undergo the studies abroad with effect from 27th August 1960. Dr. I. Prahlad, M.B.,B.S., the permanent Resident Medical Officer has been put in additional charge to perform the duties of the Superintendent with effect from 27-8-1960 and which he continues to perform.

The last Meeting of the Advisory Committee on the Improvement of the hospital took place in the Worshipful Mayor's Chambers on 30-3-1960. Those present among others, were the distinguished foreign Doctors who were specially invited to offer their general opinion about improvement of the hospital. Their valuable suggestions and guidance on the lines of improvement have been taken note of for implementation wherever possible.

Statement I in the Appendix shows the monthly average in-patients attendance in the hospital. From this, it would be seen that the hospital had not less than 200 cases throughout the year.

STATEMENT NO. I.

Statement showing the daily average number of cases (including Contacts) treated during the year 1960 :—

January 1960 ...	240	July 1960 ...	225
February 1960 ...	409	August 1960 ...	224
March 1960 ...	550	September 1960 ...	213
April 1960 ...	445	October 1960 ...	234
May 1960 ...	249	November 1960 ...	198
June 1960 ...	200	December 1960 ...	260

STATEMENT NO. II—(*Please see Statistical Supplement page*)

Dispensaries.

Free Medical Aid continued to be rendered to the citizens at all the Corporation Dispensaries. With the opening of a new dispensary at 21-A, Subbaroya Chetty Street, II Lane, Nammalwarpet, the total number of dispensaries maintained by the Corporation during 1960 reached 46 and the popularity of the Corporation free dispensaries is growing every year. Besides these dispensaries, there are eight special clinics (details given below) where cases of specific diseases like Leprosy and Skin diseases, Venereal diseases and Tuberculosis, were treated during the year.

S. No.	*Name of Clinic.*	*Location.*
1	Venereal Clinic ...	At 82/83, Strahans Road, Perambur.
2	Leprosy & Skin Clinic ...	At Ice House Road.
3	Do. ...	At Vyasarpady.
4	Tuberculosis Clinic ...	At Pulianthope High Road.
5	Do. ...	At Government General Hospital.
6	Do. ...	At Government Stanley Hospital.
7	Do. ...	At Government Royapettah Hospital.
8	Do. ...	At Government Kasturba Gandhi Hospital for Women & Children, Triplicane.

Out of the five Special Clinics for Tuberculosis, the one at Pulianthope is under the direct control and management of the Health Officer, Corporation of Madras. The other four attached to the Government Hospitals are under the control of the Director, Government Tuberculosis Institute and Clinics. The expenditure on establishment of these clinics is being met from the Corporation funds and medicines, accommodation, etc., are provided by Government.

Mobile Dispensary Service.

The mobile dispensary service was continued during the year under review by sending the two medical vans to provide medical aid to the poor people living in the outlying areas of the City and slums far away from the dispensaries. The Medical Officers of the Corporation dispensaries at Kodambakkam, Adyar, Perambur, Sembiam and Ayanavaram were incharge of the mobile medical vans in the evening hours by turns.

The first van which was under the charge of the Medical Officer of Kodambakkam and Adyar Dispensaries visited Choolaimedu, Namasivayapuram, Kodambakkam Cheri, Nallankuppam, Jaffarkhanpet, Mambalam Cheri, Alcotkuppam, Vannanthurai, Damodarapuram, Kalikundram, Pallipet, Maduvankarai, Kottur Cheri, Zamin Adayar and Vardhapuram, and the other van under the charge of the Medical Officers of Perambur, Sembiam and Ayanavaram dispensaries visited Erukanchery, Madhavaram, Kolathur village, Thandavarayan Chatram, Maduvankarai, Arumbakkam, Sanarpalayam, Ponnuvelu Pillai Thottam and Aminjikarai Cheris by turns and rendered medical aid to the people of these localities.

Skin and Leprosy Clinic, Ice House Road.

This clinic, exclusively for skin and leprosy cases, was run under the care of Dr. K. Venkataramana Rao, M.B., B.S. The Clinic functioned from 7-30 a.m. to 1 p.m. on all working days of the week excepting Mondays (holiday).

3,905 new patients sought the opinion and advice of the clinic during the year. Out of them 342 were found to be Hansen cases and the rest were suffering from various other conditions. The total number of open cases diagnosed was 105.

25,318 old cases were attended to. The grand total of all patients who attended the clinic during the year was 29,223. The daily average attendance was 93.

The notable feature of this clinic was the treatment of Corporation school children suffering from Hansens. These children were brought to the Clinic in the School Medical Service Van and after treatment they were brought back to their respective schools. But, due to certain handicaps in respect of medical inspection work during the year, this aspect of Leprosy control work could not be satisfactorily be carried out as in the previous years.

Apart from treating the general public, the Medical Officer was also required to advise the Superintendent, Corporation Special Home, in the matter of examination or treatment of lepor inmates. Twice during the year the Medical Officer had to be in additional charge of the Special Home.

Leprosy survey work in the Madras City was a very difficult task. Many cases come from the villages to the Madras City hospitals and clinics to get better treatment. Hence it was not possible to say whether the disease is on the increase nor the surveys reveal it on account of the floating nature of certain population. Since it was felt that the surveys were not very useful in this regard, concentration was made more on the propaganda, about the preventive aspect of leprosy among the patients registered in the clinic and their contacts.

In spite of our best attempts in propaganda and persuasion, the problem of absenteeism among the patients was still there. Most of the absentee patients had only early signs of Neural or Lepromatous Leprosy and it was really a job to make them understand the necessity of early and regular treatment.

During the year under review the number of cases treated were as follows :—

New Cases Treated.			Total Cases Treated.			Average Daily Attendance.		
Male.	Female.	Children.	Male.	Female.	Children.	Male.	Female.	Children.
1,044	839	2,022	14,114	7,422	7,687	45	23	25
3,905			29,223			93		

Statement 'B'.—Diseases treated for the year 1960.

Leprosy	...	342
Non-Pulmonary T.B.	...	7
Syphilis	...	3
Filanasis	...	3
Vitamin deficiency states	...	76
Allergic disorders	...	121
Scabies	...	2,167
Infection of Skins	...	1,186
Total	...	3,905

Statement 'C'—Classification of Hansen Cases for 1960

Lepromatous Leprosy—		
Macular	...	58
Infiltrative	...	29
Nodular	...	18
Neural Leprosy—		
Maculo-Anaesthetic	...	122
Tuberculoid	...	75
Anaesthetic	...	7
Muscular Paralysis	...	22
Perforating Ulcers	...	6
Necrosis and Absorption of Bone	...	......
Unspecified—		
Elephantiasis Graeeorm	...	......
Lepra	...	5
Others	...	......
Total	...	342

Statement '*D*'.—Nationality and Sex of Hansen Cases, 1960

Year	Hindus.	Mus-lims.	Chris-tians.	Total.	Male.	Female.	Chil-dren.	Total.
1960	303	30	9	342	171	83	88	342

Investigations.—162 Skin smears were examined for Lepra Bacilli including 134 smears for Special Home inmates. 37 smears showed Lepra Bacilli.

Skin and Leprosy Clinic, Vyasarpady.

A total number of 17,970 patients were treated in this Clinic during 1960 of which 2,772 were new cases registered for treatment. 348 of these were cases of Leprosy, 177 Scabies and 2,247 other skin infections and infestations.

Out of the Leprosy cases 40 were infectious, 333 non-infectious, and 15 doubtful cases.

The average daily attendance was 56. 4,777 dressings were made for wounds of leprosy patients. 50 abcesses had to be opened and dressed. About 10 cases of reaction were treated.

Apart from treating cases of Leprosy, preventive work, and control work was done in the neighbouring residential areas of the clinic. The Health Visitor of the Clinic visits the neighbouring localities for 4 days in the week, to detect new cases to advice irregular cases, to attend the Clinic for treatment regularly, to examine other members of the families of the patients, and others, living in the same house, and also for detection of new and early cases—cases so detected are advised treatment, or kept under observation. With reference to this work two localities were attended to during this period with the results shown hereunder :—

	Kamakshipuram.	*Vasar Nagar.*
1. Population enumerated ...	661	3,572
2. Population examined ...	591	3,246
3. Cases detected ...	12	13
	M2 Mc 3	M 3 Mc 3
	F3 Fc 4	F 3 Fc 4
	5 7=12	6 7=13

Total No. of patients who attended the Clinic including old cases during 1960 :—

Month.	No. of new cases treated.		No. of old cases.		Total No. of cases treated.		Grand total of both Men and Women.
	Men.	Women.	Men.	Women.	Men.	Women.	
January ...	155	135	836	421	991	556	1,547
February ...	151	138	856	416	907	554	1,461
March ...	163	140	786	458	949	598	1,547
April ...	160	128	833	515	993	643	1,636
May ...	174	125	844	469	1,018	494	1,612
June ...	102	91	673	369	775	460	1,235
July ...	116	97	931	515	1,047	612	1,659
August ...	104	90	722	409	826	499	1,325
September.	92	68	796	508	888	576	1,464
October ...	122	77	983	388	1,103	465	1,568
November ...	79	65	663	318	742	383	1,125
December ...	131	91	1,012	457	1,143	548	1,691
							17,970

Daily average attendance—56.

Tuberculosis Clinic, Pulianthope.

The Clinic situated at 13, Pulianthope High Road, Pulianthope was in its 18th year of activity during the year under review. It continues to meet the demands on its services particularly from its preventive control areas, comprising of Pulianthope, Choolai, Perambur, Sembiam, Kosapet, Vyasarpady, Ottery and Ayanavaram.

8,697 new patients sought the opinion and advice of the Clinic during the year 1960.

Clinical and Fluroscopic examinations were done as a routine on every case. Radiographic and laboratory examinations were done as and when they were required for diagnostic treatment and after-care checkup purposes. The services of the Corporation Public Health Laboratory were utilised whenever required.

References from the Private Medical Practitioners and Social and Medical Centres in the City were attended to as in the previous years.

Sorting and disposal of cases after diagnosis are detailed in the statements appended.

Awaiting list of patients suitable for Hospital treatment was maintained as in the previous years. Each case in the list was considered on its merits and the urgency of admission in the Government Sri Tiruvotteeswarar Tuberculosis Hospital, Ottery.

Contact Examination and Home Visiting.—This was possible through the medium of the Health Visitor. It was noticed that a good number of Tuberculosis cases were coming from outside the City and staying with their relatives in the control areas.

Advice on the method of prophylaxis by the Medical Officer at the Clinic and in the houses by the Health Visitor formed a regular feature of the activity of the Clinic.

The Corporation B.C.G. team visited the Clinic on two days in a week and the opportunity was availed of by the Clinic for the benefit of the contacts and the children who attended the Clinic for examination.

The Clinic worked in co-operation with the Tuberculosis chemotheraphy Centre, Chetpet, Madras during the fag end of the year. Out of forty-three patients referred to the centre from this Clinic thirteen were accepted for purposes of Research work and domiciliary service.

Details of work carried on at the Clinic during 1960.—

8,697 new patients sought the opinion and advice of the Clinic during the year 1960.

8,697 new cases were examined at the Clinic. Out of this 1,338 were found to be Pulmonary Tuberculosis cases and 305 were found to be non-pulmonary T.B. cases. Total number of T.B. cases diagnosed was 1,643.

31,542 old cases were attended to. The grand total of patients who attended the Clinic was 40,239. The daily average attendance was 110.

Table A.—Showing the number of cases examined and the number of T.B. cases among them during the year 1960 :—

Year.	No. of cases examined.	No. of cases diagnised as pulmonary T.B.	No. of cases diagnosed as T.B. non-pulmonary.	Total diagnosed T.B.	Percentage examined.
1959 ...	9,064	1,421	149	1,570	17.3
1960 ...	8,697	1,338	305	1,643	18.8

Table B.—Showing the daily average attendance during the year 1960—

Year.		Daily average.
1959	—	108.6
1960	—	110.0

Table C.

Year.	No. of sputum examined.	No. of aspirations.	No. of A.P. Refills.	No. of P.P. Refills.	No. of contact examination done.	P.T. I.	P.T. II.	P.T. III.	Nil Abnormal.	Visits of the Health Visitor.				X-Ray.	
										New.	Old.	Hospital discharge.	Total.	Rdiography.	Floroscopy.
1960	5,098	...	...	63	1,102	9	...	12	1,081	814	289	386	1,489	1,001	10,074

Attendance Table D.—Out-patient statement for 1960 :—

Male		Female.		Male child.		Female child.		Total New.	Total Old.	Grand Total.	Daily average.
New	Old	New	Old	New	Old	New	Old				
3,778	14,176	2,836	13,348	1,071	2,194	1,012	1,824	8,697	31,542	40,239	110

Statement E.—Diseases treated for the year 1960 :—

P.T. I.	P.T. II.	P.T. III.	Total No. of P.T. cases.	No. of Pulmonary P.T.	Coryza.	Influenza.	Bronchitis.	A.C. Bronchitis.	Br. Asthma.	Bronchiectasis.	Eosonophialony.	Tonsillitis.	Heart disease.	Diabets.	Malaria.	Kola Azar.	Filasiasis.
10	106	1,222	1,338	305	36	3	3,463	5	998	78	34	88	88	1	...	2	2

Bronchiolitis.	Pneumonia.	Pleurisy.	Whoofing Cough.	Emphesema.	Other disease.	Normal.	Total.
43	22	64	8	2	540	1,667	8,697

Table F.—Positive cases according to places for the year 1960 :—

Pulianthope.	Choolai.	Kosapet.	Perambur.	Vyasarpady.	Sembium.	Ayanavaram.	Total.
235	220	96	79	45	22	99	796

Cases referred to T.B.I., Egmore.	Cases referred to T.B.C. Govt. Genl. Hospital.	Cases referred to T.B.C. Govt. Stanley Hospital.	Cases referred to Govt. Royapettah Hospital.	Cases referred to Govt. K.G. Hospital.	Cases from moffussil.	Grand total.	Cases from T.B.I., Egmore.	Cases from G.H.	Cases from Stanley Hospital.	Casés from Royapettah Hospital.	Cases from Govt. K.G. Hospital.
167	106	71	28	7	163	1,338	Nil	Nil	Nil	Nil	Nil

Table G.—Positive cases according to ages for the year 1960 :—

Years 0–5.	Years 6–10.	Years 11–15.	Years 16–20.	Years 21–25.	Years 26–30.	Years 31–35.	Years 36–40.	Years 41–45.	Years 46–50.	Years 51–55.	Years 56–60.	Years 60 and above.	Total.
49	46	84	224	250	258	166	93	52	44	35	28	9	1,338

Table H.—Nationality and sex of the positive cases :—

Hindus	Muslims	Christians	Total	Male	Females	Children	Total.
1,136	161	41	1,336	713	562	63	1,338

Table I.—Classification of positive cases according to occupation for the year 1960 :—

Attender.	Peon.	Watchman.	Time-keeper.	Barber.	Beedi worker	Business.	Electrician.	Mechanic.	Butler-Baker.	Printing.	Clerk.	Conductor.	Cooly.	Ryot.	Mill worker.	Driver.	Dhoby.	Police.	M.F.S.	Fishermen.
11	9	12	3	18	34	12	5	4	16	3	12	2	327	80	Nil	9	10	9	Nil	4

Weaver.	Goldsmith.	Teacher.	Priest.	Tailor.	Merchant.	Milkman.	Painter.	Plumber.	Cobbler.	Student.	Sweeper.	Doctor.	Destitute.	H.W.	No work.	Total.
30	7	3	Nil	16	30	7	16	7	17	6	10	Nil	18	200	361	1,338

Table J.—Return and statement for 1960 :—

No. of new cases.	No. of open cases.	No. of non-pulmonary P.T.	Old Cases.	A.P. initial.	A.P. Refills.	Patients attending for A.P. refills.	No. of P.P. initials.	No. of P.P. Refills.	Patients attending for P.P. Refills.	Injections.	No. of cases visited in their houses by H.V.	No. of cases visited in their houses by M.O.	No. of contacts examined in the Home.	No. of contacts examined in Clinic.
8,697	1,338	305	31,542	Nil	Nil	Nil	Nil	63	21	5,234	1,489	Nil	Nil	1,102

Table K.—Type of Tuberculosis diseases treated for the year 1960 :—

Pulmonary Tuberculosis.	Tuberculosis of glands Adenitis mediastinum.	Osteo-Anticular Bones joints Anthiritis spinehip.	Abdominal T.B. Entrities.	Intestines.	Meningeal T.B.	Tuberculosis of skin.	Genito-urinary Tuberculosis.	Pleural with out lung dry effection.	With effusion.	Other forms of T.B.	Total.
1,338	118	10	24	9	4	Nil	Nil	74	40	26	1,643

Table L.—Classification of patients according to income for the year 1960 :—

Rs. 5–10.	Rs. 11–15.	Rs. 16–20.	Rs. 21–25.	Rs. 26–30.	Rs. 31–35.	Rs. 36–40.	Rs. 41–45.	Rs. 46–50.	Rs. 51–55.	Rs. 56–60.	Rs. 61–65.	Rs. 66–70.	Rs. 71–75.	Rs. 76–80.	Rs. 81–85.	Rs. 86–90.	Rs. 91–95.	Rs. 96–100.	Rs. 100 and above.	Total.
36	77	166	208	184	164	101	95	70	35	41	35	31	15	17	14	14	19	10	6	1,338

Table M.—Home visits by the Health Visitor and contact examination during the year 1960 :—

Year.	...	*Cases.*
1960	...	1,489

Table N.—Number of contacts examined at the Clinic at the instance of the Health Visitor :—

Year.	...	Cases.
1960	...	1,102

Table O.—Persons Mantaux tested and B.C.G. Vaccinated :—

Table No. of Mantaux tested	...	1,857
Total No. of Positive Reactors	...	781
Total No. of B.C.G. given	...	294
Total No. of not vaccinated	...	80
Total No. not presented for Mantaux reading	...	702

Tuberculosis Clinic, (Government General Hospital.)

Chest Clinic (Tuberculosis), Government General Hospital, Madras functions daily from 2 to 5 p.m. except on Sundays at the Out-Patient Department.

Clinic Staff—

Medical Officer-in-charge of Chest Clinic (Tuberculosis).
Two House Physicians (change every month).
Two Health Visitors.
One Staff Nurse.
One Clerk.

The Director, Government Tuberculosis Institute and Clinic supervised the work in the Clinic once a week.

Facilities available.—Screening, taking X-Ray Photos, Laboratory, etc. There are two emergency wards with 18 beds (12 for males and 6 for females) attached to the Clinic. Emergency cases of Pulmonary Tuberculosis like Haemoptysis, spontaneous, pneumothorax, etc., were admitted into these wards.

Hours of work—Daily routine—

8 to 11 a.m. House visiting by the Medical Officer and Health Visitors.

11 to 1 p.m. Ward work by the Medical Officer and House Physicians.

2 to 5 p.m. Out-patient work by the Medical Officer and House Physicians.

The two Health Visitors also attended to all cases that came to the Clinic at the out-patient department. Patients' names were registered and their addess noted correctly. After thorough examination and screening of the patients, X-Ray and Laboratory investigations were done on the next day. Diagnosis of Pulmonary Tuberculosis was noted in the register concerned. All cases fit for admission in the Tuberculosis Sanatorium, Tambaram for institutional treatment were selected every week and their names put in the waiting list register maintained at the Government Tuberculosis Institute, Chetput. Intimation for admissions were sent direct to the patients by the Superintendent, Government Tuberculosis Sanatorium, Tambaram as and when vacancies arise.

Treatment—

(1) Antibiotics—
  (*a*) Streptomycin.
  (*b*) P.A.S.
  (*c*) I.N.H.

(2) Collapse Therapy—
  (*a*) A.P.
  (*b*) P.P.

The drugs were administered free to the poor and deserving patients who attended the Clinic as out-patients.

Contact Examination.—The Medical Officer and Health Visitors visited the houses of the patients in the following divisions of the City :—

1. Katchaleswarar Koil.
2. Kothawal Bazaar.
3. Sowcarpet.
4. Trevelyan Basin.
5. Periamet.
6. Edapalayam.
7. Park Town.
8. Napier Park.
9. Chintadripet.

Advice was given regarding isolation of patients and disposal of their sputum. All contacts were examined, screened and also X-rayed when considered necessary.

Daily average attendance at the Clinic—

New Cases ...	13
Old Cases ...	65

Number of in-patients treated during the year—

Males ...	574
Females ...	245
Total ...	819

Percentage of Tuberculosis among contacts—5%.

Annual Report of the Tuberculosis Clinic at Government General Hospital for the month of 1*st January* 1960 *to* 31*st December* 1960

1. No. of new cases (Curative including contacts)—

Males	2,925
Females	1,564
Children	195
Total ...	4,684

2. No. of Pulmonary Tuberculosis—

	P.T. I	*P.T. II*	*P.T. III*	*Total*
Males ...	4	9	484	497
Females ...	...	5	183	188
Children ...	...	... ...	3	3
Total ...	4	14	670	688

3. Number of open cases in the above—670.

4. Number of Non-Pulmonary Tuberculosis Cases—

Cervical adentitis	10
Bone-joint T. B.	...
T. B. Larynx	...
Pluresys with effusion	15
Total	25

5. Number of Non-Tuberculosis Cases—3,971.

6. Number of Old Cases—

Males	13,783
Females	9,421
Children	448
Total	23,652

7. Number of A.P. initials	1
8. Number of A.P. refills	4
9. Number of patients attending A.P. refills	1
10. Number of P.P. initials	Nil
11. Number of patients attending P.P. refills	29
12. Number of injections given (S.M. calcium).	5,943
13. Number of P.P. refills	75
14. Number of Screenings done	3,960
15. Number of aspirations done	21
16. Number of deflation done	8

Tuberculosis Cases according to age :

1 to 5 years	Nil
6 to 10 years	2
11 to 15 years	13
16 to 25 years	238
26 to 35 years	180
36 to 45 years	132
46 years and above	105
Total	670

T.B. Patients according to Income Groups :

Nil	18
Rs. 10 to 20	340
Rs. 21 to 40	168
Rs. 41 to 75	85
Rs. 76 to 100	41
Rs. 100 and above	18
Total	670

Preventive

	New	Old	Total
1. Number of houses visited by the Health Visitors ...	552	563	1,115

By Medical Officer—480.

2. Number of contacts examined in the Clinic—

Men ...	87
Women ...	87
Children ...	73
Total ...	247

3. Number of P.T. Cases found among contacts—

	P.T. I	P.T. II	P.T. III	Total
Men ...	...	...	1	1
Women ...	...	3	3	6
Children ...	...	...	1	1
Total ...	...	3	5	8

4. Number of family planning given—51.

Patients

Patients according to Occupation Groups :

Nil ...	20
Cooly ...	447
Ryots ...	39
Clerks and Typists ...	31
Weaver ...	23
Peons and Attendants ...	17
Petty Business ...	12
Police (P.C.) ...	2
Tailors ...	13
Electricians ...	2
Watchmen ...	12
Teacher ...	2
Pensioner ...	6
Mechanic ...	1
Milkmen ...	9
Dhoby ...	2
Driver ...	9
Barber ...	5
Carpenters ...	10
Goldsmiths ...	8
Total ...	670

Tuberculosis Clinic (Government Stanley Hospital)

Tuberculosis Clinic, Stanley Hospital functions between 1-30 and 5 p.m. on all days except Sundays. The Staff consists of a Medical Officer, two House Surgeons, two Health Visitors, a part time Clerk, a Staff Nurse, a female Nursing Orderly.

About 20 New Cases and over 150 cases attended the clinic every day during the year under review. All new cases were registered, examined and screened the same day. Sputum and other laboratory examinations were done. All Pulmonary Tuberculosis cases suitable for Sanatorium treatment were put in the waiting list for admission to T.B. Sanatorium, Tambaram by the Director every Thursday and a register was maintained for this. Government Servants were placed in separate waiting list and were given priority for admission. Bilateral Pulmonary Tuberculosis cases were given, Domicilliary treatment. As far as possible they were isolated in their homes and were looked after by the Health Visitors and the Medical Officer periodically.

Medical Officer and Health Visitors visited the houses of patients every working day between 8 to 11 a.m. and advice was given regarding isolation of patients, disposal of sputum, general hygiene, etc. Contacts of patients were brought to the clinic for examination and were screened and necessary advice given regarding Sanitation and hygiene. Contact cases which showed active lesion were also put in the waiting list, and treatment started in the clinic as out-patient.

In the clinic Collapse theraby was done on suitable cases. Antitubercular drugs like streptomycin P.A.S. and I.N.H. were given to all poor patients. Two combinations (1) Streptomycin and I.N.H., (2) P.A.S. and I.N.H. were given.

Emergency cases of Pulmonary Tuberculosis like Haemoptysis, Spontaneous Pneumothora, etc., were admitted to the emergency ward attached to the clinic. 6 beds were provided, three for males and three for females cases suitable for surgery were admitted direct to T.B. Sanatorium, Tambaram. Pregnant female patients were also admitted direct.

Financial help from Bhavanagar Kshyaroga fund was given to poor patinets. 10 patients got this benefit during 1960.

Family Planning advice was given by the Health Visitors to female patients and they were asked to attend the family planning clinic.

Free supply of Milk by Co-operative for American Remittances to every where was given to T.B. patients and their families. About 600 patients got this benefit during the year.

Statistics for the Year 1960 -(Government Stanley Hospital)

Curative Side

1. Number of new Cases (including contacts)—

Male	*Female*	*Children*	*Total*
2,999	1,812	613	5,424

	Male *P.T. I*	*Female* *P.T. II*	*Children* *P.T. III*	*Total*
2. Number of Pulmonary.	210	...	2,015	2,225
3. Number of open cases in the above ...	...	...	...	2,015
4. Number of Non-Pulmonary Tuberculosis.	...	...	...	91
Cervical Adentitis ...	...	...	...	38
Pleurisy with effusion.	...	...	...	19
Skin ...	...	...	...	11
Meningial ...	...	...	...	6
Osteo Articular ...	...	...	...	7
Intestinal ...	...	...	...	10
5. Number of Non-Tubercular cases ...	...	...	...	3,108
6. Number of old cases—				
Men ...	...	...	...	23,374
Women ...	...	...	...	21,446
Children ...	...	...	... ...	8,450
			Total ...	53,270

7. Number of A.P. initials ...	Nil
8. Number of A.P. refills ...	Nil
9. Number of P.P. initials ...	Nil
10. Number of Patinets attending for A.P. refills ...	Nil
11. Number of P.P. refills ...	185
12. Number of Patients attending ...	134
13. Number of Injections given (Streptomycin, etc.) ...	33,287
14. Number of Screenings done ...	4,569
15. Number of Aspirations done ...	19
16. Number of cases referred from other Clinics ...	262

Age and Sex Group of cases diagnosed to suffering from Pulmonary Tuberculosis.

Age	*P.T. I*		*P.T. II*		*P.T. III*		*Total*
	Male	*Female*	*Male*	*Female*	*Male*	*Female*	
1 to 6 ...	23	20	...	...	13	8	
7 to 10 ...	9	6	...	...	10	9	
11 to 15 ...	12	12	...	...	35	17	
16 to 25 ...	27	20	...	...	366	220	
26 to 35 ...	19	20	...	...	423	166	
36 to 45 ...	18	11	...	...	315	140	
46 and above ...	12	9	...	...	252	59	
Total ...	120	98	= 218	...	1,406	609	= 2,015

Income Group—		*Number of Cases*
Rs. 10 to 20	...	188
Rs. 21 to 40	...	1,207
Rs. 41 to 75	...	295
Rs. 76 to 100	...	87
Rs. 100 and above	...	65
No income	...	173
Total	...	2,015

Occupation Group

Occupation—		*No. of Cases*
Cooly	...	931
Ryot	...	213
Beedy Roller	...	148
Clerical	...	100
Mechanic	...	101
Business	...	107
Tailors	...	66
Weaver, etc.	...	75
N. G. Os.	...	76
C. G. Os.	...	29
Others	...	169
Total	...	2,015

...

Preventive Side :

	Last visit	*Re-visit*	*Total*
1. Number of houses visited—			
By Health Visitor ...	972	828	1,800
By Medical Officer...	...	...	512

2. Number of contacts examined in the Clinic—		
Men ...	...	313
Women	...	351
Children	...	368
Total	...	1,032

	P.T. I	*P.T. II*	*P.T. III*	*Total*
3. Number of P.I. cases found among the contacts ...	35	...	52	87
4. Number of cases Tuberculin-treated—				
Tuberculin positive ...	...	...	...	Nil
Tuberculin negative ...	...	...	...	Nil
B.C.G. given ...	...	...	...	Nil
5. Coverage so far in the current year—				
Coverage so far from 1950.	...	...	...	Nil
6. Family planning ...	...	...	...	129

Tuberculosis Clinic (Government Royapettah Hospital)

Population catered to—2,23,489. (Latest census—59)

Staff attached to the Clinic is as follows :

1. Full time paid Medical Officer—One.

2. Qualified Health Visitors—Two (One Male and one Female).

3. Registration Clerk (Part time)—One.

4. The Tuberculosis Clinic takes the services of the staff attached to Government Royapettah Hospital, Madras—X-ray Department and Clinical Laboratory for X-ray and Laboratory examination respectively.

5. The Staff Nurse posted to the Tuberculosis Ward is also posted to work in the Clinic in the afternoons for giving Injections.

6. The Male Nursing Orderley and Female Nursing Orderley posted to the Clinic are part-time workers who have other duties in the other Departments of the Government Royapettah Hospital, Madras.

Main items of Work :

1. Contact work.
2. Tuberculosis Ward Work (Emergency Ward for Males only).
3. Tuberculosis Clinic Out-Patient Department.
4. Clinical Conference on every Wednesday at Government Tuberculosis Institute between 10-30 a.m. and 12 noon to discuss cases with the Director, Government Tuberculosis Institute.

Contact Work :

All contacts of open cases are querried at their houses and a thorough check up of the families are done at the Clinic. This is done by Health Visitors supervised by the Medical Officer.

Tuberculosis Ward Work at Government Royapettah Hospital :

All cases of emergency such as Haemoptysis, spontaneous pneumothorax and cases of poor general condition with dyspneal, oedema of legs are admitted by the Director, Government Tuberculosis Institute as well as Medical Officer at the Clinic and also at the Casualty Department of the Government Royapettah Hospital, Madras. They are attended to, and treatment given and kept till the emergency is over.

Ward Bed Strength :

18 beds allotted for males only.

Working Hours :

12 noon to 2 p.m. daily except Sundays.

Number of emergency cases admitted in 1960 (1st January 1960 to 31st December 1960)—500.

Tuberculosis Clinic (Out-patient Department) :

Working Hours : Between 1-30 p.m. and 5 p.m. daily except Sundays. Though the Clinic is intended to cater 8 Divisions (Mylapore, Adyar, Guindy, Saidapet, T. Nagar, Teynampet and Royapettah), it also helps patients coming from other Divisions like Triplicane to get examined and treatment is given to them.

It also helps patients coming from other localities for examination and they are also examined and referred to respective Tuberculosis Clinics in their areas.

In addition, cases referred for opinion by other Departments of Government Royapettah Hospital are also examined at the Clinic.

Screening is done four days in a week except Government Holidays and opinion is given to all. It functions as a Diagnostic centre.

Cases diagnosed as Pulmonary Tuberculosis (ie.) Sputum positive for A. F. B. in the respective areas covered by the City Clinics are given free supply of Streptomycin, I. N. H., and Neo P. A. C. tablets in continuation of two drugs at a time. The Non-Gazetted Officers get their quota in the Hospital given free to them by maintaining a register which is supervised by the Superintendent of Government Royapettah Hospital.

Collapse therapy are also given such as A.P. and P.P. for few cases either started and continued here or started at Tambaram Sanatorium and continued at the Clinics. Further details are shown below in separate sheets attached :

Work done at the Clinic during 1960 :

1.	Number of cases registered in the year (1st January 1960 to 31st December 1960)	4,632
2.	Number of P.T. among the new cases registered	689
3.	Number of Non-Pulmonary Tuberculosis cases	90
4.	Number of Non-Tuberculosis cases	3,770
5.	Number of old cases attended	28,325
6.	Number of daily average attendance of old cases	94
7.	Number of daily average (new and old cases)	109

For the year 1960 :

1.	A.P. Initials	Nil
2.	A.P. Refills	Nil
3.	Number of patients attending for collapse therapy	14
4.	Number of P.P. Refills	363
5.	Number of Aspirations done	26
8.	Number of Screenings done	2,727
7.	Number of Injections done (S. M., etc.)	6,840

It was observed that the incidence was highest among the poorer classes between the age groups 16 to 40 and also in low income groups. It is all due to poor housing conditions and also due to low economical conditions. The cost of living is on the increase and people are not able to meet the both ends. So it is better to pay much attention to rise the standard of living by bringing down the cost of foodstuffs and also raise the status of the individuals.

Cases are reviewed by the Director of Tuberculosis Institute once a week and put in waiting list to Tambaram and get admission according to their turn. This takes a long time for them and so it is better to supply free drugs liberally to all Clinics so that this can be issued liberally for those who attend regularly.

That is why domiciliary treatment is stressed so much so that people come better with surroundings at home without being much depressed. Domiciliary treatment will be given and render people to eradicate the scourge of this disease in the coming years.

Government Royapettah Hospital Tuberculosis Clinic—Contact coverage for the year 1960 (1*st January* 1960 *to* 31*st December* 1960)—

1.	Patients picked up (open cases)	689
2.	Houses visited	510
3.	Number querried at home	1,980
4.	Number examined at Clinic	1,980

5. Number of cases found at the Clinic—

P.T. I			*P.T. II*			*P.T. III*		
Male	*Female*	*Children*	*Male*	*Female*	*Children*	*Male*	*Female*	*Children*
...	...	47	3	3	5	22	15	8

6. Total Number of P.T. cases found among contacts—63.

Government Royapettah Hospital, T. B. Clinic, Madras

1. Area covered by—15.249 Square Miles.
   Number of Divisions catered—8 Divisions.

2. Population catered—2,23,489.

3. (*a*) Number of new cases registered —

Male	...	2,612
Women	...	1,375
Children	...	645
Total	...	4,632

   (*b*) Number of daily average attendance of new cases—15.

4. Number of Non-Pulmonary Tuberculosis cases (new)—689.
   Sputum positive for A.F.B.—459.
   Sputum negative for A.F.B.—230.

5. Number of Non-Pulmonary Tuberculosis cases—90.

6. Number of Non-Tuberculosis cases—3,770.

7. (*a*) Number of old cases absorbed—

Males	...	17,298
Women	...	9,278
Children	...	1,749
Total	...	28,325

   (*b*) Daily average number of old cases—88.

8. Total daily average (new and old cases)—109.

Tuberculosis Clinic (Government Kasturba Gandhi Hospital for Women and Children), Triplicane.

The T. B. Clinic attached to the above hospital functions on all days except Sundays from 2 p.m. to 5 p.m. Triplicane, Zambazaar, Pudupakkam, Thiruvateeswaranpet, Mount Road, Chepauk, Mirsaibpet and Krishnampet are under the jurisdiction of this Clinic. Only Women and Children are treated and contact cases are examined. Male contacts are screened and if found positive they are referred to General Hospital or Royapettah Hospital.

The Director, Tuberculosis Institute supervises the Clinic once a week and puts deserving patients suffering from Pulmonary Tuberculosis on waiting list for admission into the Government Tuberculosis Sanatorium, Thambaram. A specially trained doctor and an house surgeon attend the patients and also examine the in-patients when requested by the Ward Doctor and give necessary advice. The Doctor and a Health Visitor visit the patients in their homes and give them necessary advice regarding disposal of the sputum, contact examination, attending the hospital regularly, health, etc. When patients of this area happen to visit other clinics they are referred back to this Clinic. The Health Visitor visits them and advices them to visit this Clinic. The Clinic functions only as an out-patient department.

In the year under review 2,079 patients attended the Clinic. 337 cases were diagnised to be suffering from Pulmonary Tuberculosis, out of which 55 cases were put on waiting list for admission into the Sanatorium, Tambaram, All clinical examinations were done in the hospital, making use of the Clinical Laboratory, Screening and X-ray apparatus. Most of the patients were P.T. III cases, majority of them being between the ages 16 to 25 years, their income being between Rs. 21 to Rs. 40 and their occupation housewives.

Deserving patients are receiving money from the Bhavanagar Fund. They are paid Rs. 10 per month for a period of 6 months.

Curative—

	Men	*Women*	*Children*	*Total*
1. Number of new cases (including contacts) ...	14	1,519	546	2,079

	P.T. I	*P.T. II*	*P.T. III*	*Total*
2. (i) Number of Pulmonary Tuberculosis cases—				
Women ...	19	20	265	304
Children ...	12	1	20	33
Total ...	31	21	285	337

Number of cases belonging to this area ...	226
Number of cases belonging to other areas ...	93
Number of cases from mofussil ...	18
(ii) Pleurisy—	
Dry ...	4
With effusion ...	18
(iii) Others ...	...
3. Number of open cases in the above ...	121
4. Number of Non-Pulmonary Tuberculosis cases .	92
(i) Glands (lymphatic) ...	82
(ii) Osteoarticular (excluding late affection) ...	...
(iii) Meningeal (including C.N.S.) ...	...
(iv) Abdominal ...	8
(v) Skin (including subcutaneous cellular tissue)	...
(vi) Of Genito-urinary system ...	...
(vii) Others—	
T.B. Larynx ...	1
T.B. Endometries ...	1

5. Number of Non-Tuberculosis cases—

Respiratory System—	
Influenza ...	2
Upper respiratory cattarh	75
Laryngitis ...	2
Tonsilitis ...	38
Bronchitis ...	355
Chronic Bronchitis ...	2
Bronchial Asthma ...	122
Eosinophila ...	7
Bronchiectasis ...	64
Cystic lung ...	5
Broncho Pneumonia ...	4
Lung abscess ...	1
Pneumonitis ...	7
Whooping cough ...	10
Cardiovascular system—	
Valvular disease of the heart ..	29
Hypertension ...	...
Anamia ...	54

Digestive System—	
Pharyngitis ...	...
Dysentery ...	2
Diarrhoea ...	21
Chr. Diarrhoea ...	6
Constipation ...	...
Nut. oedema ...	5
Dyspepsia ...	56
Worms ...	4
Other diseases—	
P.U.O. ...	83
Pyelitis ...	...
Debility ...	146
Mylagia ..	102
Surgical ..	19
Gynaec ...	20
Neurities ...	1
Contacts ...	386
Total ...	1,628

6. Number of old cases —

Women ...	13,376
Children ...	2,839
Total ...	16,215

7 to 12. A.P. and P.P. ... Nil

13. Number of Injections given—

Streptomycin ...	4,750
Other Injections ...	2,700

14. Number of Screenings done ... 2,230

15. Number of Aspirations done ... 2

Preventive :

16. Number of cases referred from other clinics ... 192

17. Number of houses visited—

	First visit	*Re-visit*	*Total*
By the Health Visitor ...	444	178	622
By the Medical Officer ...	352	...	...

18. Number of contacts examined in the Clinic—

Men ...	14
Women ...	149
Children ...	223

19. Family Planning—No. advised ... 72

Contact Work—

1. Patients picked up ... 444
2. Houses visited ... 444
3. Number querried at their homes 1,332
4. Number of contacts totally examined in the clinic ... 386
5. Number found P.T. among the contacts—

		P.T. I	*P.T. II*	*P.T. III*	*Total*
Women	...	1	1	3	5
Children	...	5	1	4	10

6. Total number of P.T. found among the contacts ... 15

Age, Sex, Income and Occupation Groups among patients suffering from Pulmonary Tuberculosis for the year 1960—

Age and Sex Group—

Age		*Female*			*Total*
		P.T. I	*P.T. II*	*P.T. III*	
1 to 5 years	...	8	...	15	23
6 to 10 years	...	4	1	6	11
11 to 15 years	...	...	...	6	6
16 to 25 years	...	8	10	123	141
26 to 35 years	...	5	8	85	98
36 to 45 years	...	4	1	31	36
46 years and above	...	2	1	19	22
Total	...	31	21	285	337

Income and Occupation Group—

Income			*Occupation*		
Rupees		*No. of cases*	*Type*		*No. of cases*
10 to 20	...	35	Housewife	...	272
21 to 40	...	172	Nil occupation	...	42
41 to 75	...	90	Student	...	16
76 to 100	...	19	Ryot	...	...
100 and above	...	6	Servant	...	1
Nil Income	...	15	Weaver	...	...
			Beedi maker	...	...
			Teacher	...	1
			Sweeper	...	4
			Nurse	...	1
Total	...	337	Total	...	337

1. Area covered by 6 divisions... 2.885 square miles.

2. Population catered to ... 1,79,303.

3. Number of new cases registered—

Women ...	1,519
Children ...	546
Men ...	14
(*b*) Daily average attendance of new cases ...	6

4. Number of P.T. cases—	*P.T. I*	*P.T. II*	*P.T. III*	*Total*
Women ...	19	20	265	304
Children ...	12	1	20	33

Sputum positive cases—121

5. Number of Non-Pulmonary Tuberculosis cases ... 92

6. Number of Non-Tuberculosis cases ... 1,628

	Women	*Children*	*Total*
7. (*a*) Number of old cases attended ...	13,376	2,839	16,215
(*b*) Daily average attendance of old cases ...	44	...	...

8. Total daily average attendance 50

Area covered by the Clinic, showing the Number, Names of the Divisions, population of each division and total population—

Division		*Area in sq. miles*	*Population*
1. Pudupakkam	...	.2238	28,672
2. Thiruvateeswaranpet	...	1.0499	30,363
3. Chepauk	...	.2997	24,267
4. Triplicane	...	.1760	26,777
5. Zambazaar	...	.1391	25,044
6. Mirsaibpet	...	.7000	44,180
Total	...	2.5885	1,79,303

MEDICAL INSPECTION

During the year under review, four Medical Inspectors (including the Chief Medical Inspector and three Medical Inspectresses continued to attend to the Medical Inspection of Children in the Corporation Schools. Dr. Abraham Dhanaraj, the Chief Medical Inspector retired during October 1960 and he was succeeded by Dr. B. L. N. Raj. Out of the four Medical Inspectors two are allopathic and the other two are Unani Doctors. The complement of the Medical Inspection staff continued to be insufficient to cope up with the increasing work, as the number of schools have further increased. For want of doctors in the dispensaries the Medical Inspectors and Inspectresses had to work as relieving Medical Officers in the dispensaries. Hence the out-turn of work during the year 1960 was rather low. The number of school children on rolls was about one lakh and ten thousand, the average daily attendance being 1,02,803 out of which 55,565 were boys and 47,238 girls.

Details of 305 Corporation Schools run by the Corporation are as follows :—

1.	Higher Elementary Schools	...	66
2.	Elementary Schools	...	183
3.	Feeder Schools	...	8
4.	Basic Schools	...	9
5.	Urudu Boys' Schools	...	21
6.	Urudu Girls' Schools	...	18
	Total	...	305

In addition to these schools, the Medical Inspectors and Inspectresses examined the students of two High Schools maintained by the Corporation of Madras one at Saidapet and the other at Nungambakkam.

Only one School Medical Ambulance Van was under the charge of the Chief Medical Inspector during the year for taking the children of the schools of South Madras to skin clinics for examination and treatment to attend to other functions and also for montoux and B.C.G. work. No van was available for attending to the same work in North Madras as the present condemned one had not been replaced and consequently the children of North Madras schools could not be given the benefit of such medical treatment.

The statement given below shows in detail the number of regulars and entrants both boys and girls medically examined and the number of defective found during routine medical inspection :—

Groups	Boys			Girls		
	Number exa-mined	Number found defective	Per cent	Number exa-mined	Number found defective	Per cent
Entrants ...	3,768	1,628	50.21	3,536	2,007	56.67
Regulars ...	6,134	3,240	52.84	4,900	2,963	60.47
Total ...	9,902	4,868	49.06	8,436	4,970	58.92

Malnutrition.—780 boys (7.72%) and 1,260 girls (25.37%) were found undernourished against 1,184 boys (12.512%) and 2,274 girls (16.16%) respectively in the previous year. 3,023 children were given shark liver oil and calcium lactite for malnutrition and rickety chest and 1,317 children were given yeast vitamin C tablets and iron tonic for various forms of stomatitis and border case anemias of matri-nutritional origin and other forms of B complex and vitamin B deficiency diseases.

Medical Treatment.—3,890 boys and 3,126 girls were treated at their schools. 350 boys and 330 girls were sent to Corporation dispensaries for attention and treatment as they could not be attended to at the schools. 400 boys and 800 girls were sent to Government Hospitals for various ailments such as phyrangitis tonsilitis, discharge from the ear and other ailments for further investigations and treatment.

Re-inspection.—110 re-visits were made to the various schools and 3,523 boys and 1,472 girls were examined and 378 parents met and given necessary advice.

Personal Hygiene.—145 boys and 37 girls were found un-hygienic in respect of their clothes, head, nails and body. Instructions were given to the children and also to the parents of the children to pay more attention to the above defects. Medical Inspector and Inspectresses taught the children the basic principals of personal hygiene by giving them a few lectures.

Diseases of Bones and Joints.—389 boys and 135 girls with bone disease were suitably advised.

Infectious and Contagious Diseases.—521 boys (5.26%), 664 girls (13.36%) had infectious and contagious diseases. They were suitably segregated and isolated by giving separate seats and others sent to infectious disease hospital and Corporation dispensaries for treatment and a few were advised to have complete treatment at home. 325 boys and 430 girls having scabies were suitably treated at the schools by issuing sufficient amount of unguntum sulphuris. 190 cases of hansen and other skin diseases were suitably treated at the skin and leprosy clinic at Ice House Road, Triplicane, The school ambulance van was used for this purpose.

Other Diseases and Defects.—184 boys (1.85%), 304 girls (6.11%) having defects not mentioned under the above categories were suitably treated.

Circulatory Sysiem.—120 boys (1.31%), 180 girls (3.82%) were advised proper treatment. Anemic children were given Iron tonic.

Co-operation of Teachers.—The Headmasters and Teachers co-operated with the Medical Inspectors and Inspectresses and they arranged to bring the parents of children who required hospital treatment so that proper instructions could be given to the parents about the disesase and treatment required by their children. The Headmasters and Teachers were trained in giving first aid and instructed as how to administer medicines, tablets, powders and tonics to children suffering from malnutrition and minor ailments.

School Sanitation.—Defects in the school premises with particular reference to latrines, bath rooms, water supply were reported to the respective departments for action. The need for providing play grounds for the children was particularly felt and the concerned department asked to take necessary action in the matter.

Medical Examination of Corporation Thozhilalies.—1,032 men and 67 women workers of all departments were examined for physical fitness, fixation of age and invalidation during the year and duly certified.

Supply of Spectacles.—Arrangements were made to send poor children with defective vision in batches to various Government Hospitals with ophthalmic department for examination and issue of necessary prescription. Spectacles costing Rs. 209 were purchased from the amount donated by Sri C. Rajagopalachariar and supplied to 35 children during the year.

Other Activities.—During the heavy rains and subsequent floods in the City in November 1960 several poor people who were rendered homeless and suffering from fever, diarrhoea, etc., were given free medical aid. The C.M.I. who went round in a mobile dispensary van, gave medicine, tablets, etc., to the sick people who were provided temporary shelter in Corporation schools :—

The following articles were issued from the Central School Medical Stores to the Headmasters of the Corporation schools for the use of the school children.

1. Shark Liver Oil.
2. Calcium Lactate.
3. Mist. Iron tonic.
4. Yeast tablets.
5. Tr. Iodine.
6. Tr. Benzoin.
7. Sulphur ointment.
8. Zinc ointment.
9. Boric ointment.
10. Cotton.
11. Bandages.
12. Gauze.
13. Vitamin C tablets.
14. Glycerine acid carbolic ear drop.
15. Mandles solution.
16. Glycerine Borax.
17. Argyrol Eye Drops.

MIDDAY MEALS

This pioneer scheme of the Madras Corporation was first introduced during 1925 for feeding 500 pupils in the Corporation schools. Preparation of meals and their distribution to the schools in covered vans under hygienic condition were transferred to the charge of Health Department in the year 1947. 3,000 pupils of the Corporation Schools were provided with midday meals from the three Corporation Midday Meals Centres in the City located at Gopalapuram in the South, Chintadripet in the Centre and Basin Bridge in the North on all the school working days. Gradually meals were increased and during the year 1957 this scheme was reorganised by changing the menu.

supplying four kinds of meals each one daily which was more palatable and of nutritive value.

1.	Mondays	Rice and Sambar.
2.	Tuesdays	Curd Rice and Gojju.
3.	Wednesdays	Tamarind Bath and Koottu.
4.	Thursdays	Kathambam.
5.	Fridays	Rice and Sambar.

In the early part of the year 1960, 28,730 meals were supplied in 293 Corporation schools upto 20th August 1960. During the year under review a fair donation of 16,561 bags of Raw Rice of 100 lbs. each was received from the people of America through CARE Organization and from 22nd August 1960, the number of meals was increased by 5,165 thus making the total supply of 33,895 meals daily in 304 Corporation schools.

There has been a gradual increase in the Midday Meals supplied to poor children studying in Corporation schools as shown below.

Year	*No. of meals supplied per day*
1947	8,000
1948	8,000
1949	8,000
1950	8,000
1951	8,000
1952	8,000
1953	10,000
1954	11,000
1955	12,000
1956	13,000
1957	18,000
1958	28,730
1959	28,730
1960	33,895

Besides the main work of supplying Midday Meals to Corporation school children in the Midday Meal Centres came to the rescue of the victims of Flood and Fire during the year under review by preparing and supplying 2,84,186 Meals for Flood stricken people and 8,650 Meals for the families who were rendered homeless due to fire accidents.

Distinguished visitors from various parts of the World visited our Mid-day Meal Centres to study this scheme and praised the administration of this scheme by the Madras Corporation. (1) Smt. B. Indiravathy, Mayor of Bangalore, (2) Smt. Renuka, Chairman of Health Committee, Central Government, (3) Mr. Marian Watkins from Australia, (4) Dr. Marjorie U. Wilson from America, (5) Sri Kumud, State Faculty of House, Baroda, (6) Mr. P. Kashor from Netherlands, (7) Sri B. R. Gail from Maharashtra State, (8) Sri A. E. Sonaggere, Director of Indian Catholic Relief Service, and (9) Mr. F. J. Daris, Assistant Director of CARE in India. were among those who visited the centre.

A few extracts from the views recorded in Visitors' Book maintained at Midday Meal Centre, South Range are given below—

"This work and enthusiasm of the adults now will benefit the coming generation. It is most encouraging to see the support given by the Corporation."

(Sd.) E. S. NOFFEYAN,
Canberra, Australia.

"I have no doubt that this most encouraging experiment will induce other Municipalities in the Country to follow your commendable example."

(Sd.) J. R. SEN,
F. A. O.

"This is a wonderful scheme to be adopted in other Corporations for the benefit of the poor children. Myself and my colleagues and officers were very much impressed by the working of the scheme."

(Sd.) B. INDIRAVATHY,
Mayor of Bangalore,

26-7-1960.

"We were very pleased to have an opportunity to visit this centre where the food is being prepared for the free midday meal for children in Corporation schools. The food is cleanly prepared and the arrangements are good for supplying each school. We congratulate the organizers.

(Sd.) PUSHPA MEHTA,
(Sd.) RAJAMMAL P. DEVADOSS,
Members, S. H. Committee.

(Sd.) RENUKA,
Chairman,
School Health Committee.

"A very palatable way to make school interesting and an excellent scheme by Madras Corporation."

(Sd.) MARIAN WATKINS,
The Age, Melbourne,
Australia.

"The Midday Meals Centre, South Range is to be complimented on the splendid job being done here in feeding such a large number of children with such a varied and good quality meal."

(Sd.) DR. MARJARIE U. WILSON,
University of Minnesota,
Minneapalia, Minnesota,
U. S. A.

PUBLIC HEALTH LABORATORY

This is the 15th Annual Report of the Public Health Laboratory. This laboratory was started with the aim of providing laboratory facilities to the Medical Institutions run by the Corporation, so as to make the diagnosis and treatment of diseases more scientific. Subsequently it was permitted to cater to the needs of the Private Practitioners of the City and their client, etc. The charges levied for testing the samples of Blood, Urine, Motion, Smears, etc., are very nominal so as to be within the reach of even a poor man. This laboratory is intended for service and not for profit making.

STATEMENT No. I

Showing the Progress of the Laboratory from 1946

Year		*Number of samples tested*	*Receipts*	
			Rs.	nP.
1946	...	311	215	00
1947	...	1,492	647	50
1948	...	5,642	1,635	00
1949	...	12,266	4,766	00
1950	...	16,346	10,939	00
1951	...	19,005	11,234	00
1952	...	33,089	11,560	75
1953	...	34,310	18,649	75
1954	...	43,072	22,336	50
1955	...	43,955	24,118	50
1956	...	44,569	24,334	50
1957	...	47,368	22,409	25
1958	...	44,337	24,304	50
1959	...	46,183	27,251	50
1960	...	48,286	31,103	25

It is evident from the above statement that year after year the laboratory is becoming increasingly popular and the number of samples tested are steadily on the increase. It is gratifying to note that the staff of various Corporation Medical Institutions are evincing great interest and are taking full advantage of the facilities provided and thereby treating their patients more scientifically. About 50% of the specimens tested are from the Corporation Institutions.

may be mentioned here again for the information of the public and private Medical Practitioners that the Public Health Laboratory undertakes almost all examinations: Clinico-Pathological, Bacteriological, Serological and Bio-Chemical tests, etc., and the rates are very competitive. The examination of Sputum for Acid Fast Bacilli and the throat swabs for C. Diphtheria are done free of cost. It is requested that the public and the Private Practitioners will avail themselves of these laboratory facilities provided by the Corporation of Madras.

STATEMENT No. II

Statement showing the details of specimens received from the Private Practitioners, various Clinics, Dispensaries, Child Welfare Centres, Corporation of Madras during the year under review

Private Practitioners	*Corporation Institutions*			*Total*
	C. W. C.	*Dispensaries*	*Clinics*	
25,476	17,236	2,850	2,724	48,286

This laboratory is under the charge and efficient care of the Pathologist Kumari Dr. Shantha Arogyadoss, M.D., D.G.O., who had the post-graduate training in U. S. A. She is ably assisted by Dr. M. Anantharam, M.B.B.S., Senior Assistant, Dr. Mrs. Sharada Bai, M.B.B.S., Mr. Arunachalam, B.Sc., Assistant Bio-Chemist, 4 Technicians, 8 Attenders and 2 Peons. From the day she returned from the U. S. A, she has been improving the laboratory to keep it upto date in equipment and technique striving her best to keep the laboratory on par with the foreign laboratories in all respects as far as possible.

STATEMENT No. III

Showing the total number of various specimens received during the year

Blood	*Sputum*	*Urine*	*Motion*	*Others*	*Total*
38,829	1,881	3,192	3,956	428	48,286

During the year, the laboratory handled 48,286 specimens. Statement above shows the nature of specimens and the number of each kind of specimen examined during the year.

The laboratory has undertaken routine screening of blood of pregnant women who attend the ante-natal clinics of the Child Welfare Scheme. For want of enough laboratory facilities and staff, etc., now only in 20 centres such a scheme is put into effect at present as against 15 centres during 1959. During the year in all 17,441 mothers had their blood tested and in 708 cases it was positive. Syphilis not only affects the termination of pregnancy, but the child born of syphilitic parents will congenitally acquire the disease and it will be a great thing if this is detected before the child is born and the mother treated to prevent the child from infection of the disease. With this idea this scheme is put into operation and the laboratory is equipped with a field survey units donated by UNICEF in the year 1951, which is of great use in working out the scheme.

STATEMENT No. IV

Showing the details of Serology Test conducted during the year for Private Practitioners and Child Welfare Centres, Corporation of Madras in detail.

Courses	*No. of Positives*	*No. of Negatives*	*Total*
Child Welfare Centres ...	708	16,733	17,441
Private Practitioners ...	167	2,178	2,345

STATEMENT No. V

Showing the details of pregnant women examined for V. D. diagnosed and treated and Penicilin used.

Pregnant Women examined	*Diagnosed*	*Treated*	*PAM used during the year*
18,872	708	468	5,208 cc

STATEMENT No. VI

Showing the quantity of Penicilin P. A. M. purchased from local market, received and issued to the centres and the closing balance during the year

Opening Balance	*Receipts*	*Total*	*Issued to the Centres*	*Closing Balance*
566 vials	1,000 vials	1,566 vials	534 vials	1,032 vials

The Bio-chemistry section of the laboratory has been functioning from May 1958 with one Bio-Chemist and one attender. During the year 1960, one Assistant Bio-Chemist Mr. M. C. Arunachalam B.Sc. was appointed. The details of Bio-chemical tests done in the laboratory from 1st January 1960 to 31st December 1960 are furnished below as per the statement :—

			1960	1959
1.	Blood Sugar	...	235	159
2.	Blood Cholestrol	...	120	32
3.	Glucose Tolarence Test	...	97	56
4.	Blood Urea	...	88	68
5.	Serum Proteins	...	46	6
6.	F.T.M.	...	43	13
7.	C.S.F.	...	35	52
8.	Icteric Index	...	28	5
9.	Vanden Burgh Test	...	16	3
10.	Thymol Turbidity	...	14	2
11.	Urea Clearance	...	12	7
12.	Non-Protein Nitrogen	...	8	...
13.	Serum Calcium	...	6	10
14.	Serum Biluruin	...	5	...
15.	Prothrombin Time	...	5	9
16.	Alkaline Phosphatase	...	4	...
17.	Acid Phosphatase	...	3	1
18.	Blood Fibrinogen	...	1	...
19.	Blood Chlorides	...	1	...
	Total	...	767	423

The amount collected towards the fees for Bio-Chemical Analysis done during this year was Rs. 4,434.00. nP.

Fees at the scheduled rates for examination of specimens for the Clinical tests, Serological and Bacteriological tests. are as follows.—

	SCHEDULED RATES		Rs.	nP.
1.	Blood ordinary examination counts, etc. each	...	1	00
2.	Blood Agglutination Test (Widal)	...	2	00
3.	Blood Culture for Enteric Groups	...	2	00

SCHEDULE RATES—*contd.*

		Rs.	nP.
4.	Blood V.D.R.L. Tests ...	2	00
5.	Blood Kahn Tests ...	2	00
6.	Blood Quantitative V.D.R.L. Tests ...	2	00
7.	Blood Sedimentation rate ...	1	00
8.	Motion Culture ...	2	00
9.	Motion Microscope examination ...	1	00
10.	Urine for Quantitative examination ...	1	00
11.	Urine for Qualitative examination ...	1	50
12.	Other smear for G.C. examination, etc. ...	1	00
13.	Skin smear for Hansens examination ...	1	00
14.	Semen examination complete ...	1	00
15.	Semen examination for spermatoza ...	1	00
16.	Blood Vandenberg Test ...	1	00
17.	Blood for Gel Tests ...	1	00
18.	Blood for Chopra Tests ...	1	00
19.	Bleeding time ...	1	00
20.	Coagulation time ...	1	00
21.	Other materials sent by the Private Doctors ...	1	00 each
22.	Plate Let Count ...	1	00

FEE FOR BIO-CHEMICAL ANALYSIS

			Rs.	nP.
1.	Blood Sugar ...		3	00
2.	Glucose Tolerence Test ...		12	00
3.	Fractional test meal analysis ...		20	00
4.	C.S.F. for Protein	for all the three tests.	18	00
5.	C.S.F. for Sugar			
6.	C.S.F. for Chloride			
7.	C.S.F. for Globulin ...		2	00

FEE FOR BIO-CHEMICAL ANALYSIS—*contd.*

			Rs.	nP.
8.	Vandenberg Quantitative	...	6	00
9.	Icteric Index	...	2	50
10.	Serum Total Protein, Albumen, Globulin	...	12	00
11.	Serum Alkaline Phosphatase	...	8	00
12.	Serum Acid Phosphatase	...	8	00
13.	Serum Calcium	...	6	00
14.	Serum Phosphorus	...	6	00
15.	Thymol Turbidity	...	5	00
16.	Prothromin time	...	5	00
17.	Blood Chloride	...	6	00
18.	Urine Chloride	...	6	00
19.	Serum Cholestrol	...	6	00
20.	Urea Clearance Test	...	11	00
21.	Blood Urea	...	6	00
22.	Non-Protein Nitrogen	...	8	00
23.	Blood Fubrinogen	...	8	00
24.	Quantitative estimation of any other content not mentioned above except 17 Keto Steroide.		8	00

However testing of samples taken from the Corporation employees drawing a salary less than Rs. 300 and their dependents is done free of charges.

Specimens received from Corporation institutions also are charged at the schedule rate for Bio-Chemical Analysis only.

Working hours of the Laboratory is 10-30 a.m. to 5 p.m. Specimens are received from 10-30 a.m. to 12 noon only. Appointment for blood tests can be fixed previously at the laboratory during working hours, i.e., 10-30 a.m. to 5 p.m. for the convenience of the public.

During the year it was proposed to construct a separate block to house the Bio-Chemistry section as there is not enough room in the existing building.

PUBLIC ANALYST LABORATORY

During the year under report, the total number of samples analysed showed a further increase to 8,940 as against 8,740 in 1959, and the samples taken under the Prevention of Food Adulteration Act, 1954 alone numbered 8,377 as against 8,123 in 1959.

Of the 8,377 samples analysed under the Prevention of Food Adulteration Act, 5,971 samples were genuine and the remaining 2,406 samples were found to be adulterated. The percentage of adulterated samples for the year 1960 was 28.7 against 27.8 in 1959.

The samples analysed consisted of milk, butter, ghee, gingelly oil, groundnut oil, cocoanut oil, coffee powder, tea, ghee substitutes, turmeric, arrowroot, honey, chilli powder, dhalls, confectionery and other articles. A statement of the samples analysed in 1960 and also during the five previous years is given in the Appendix (Food Analysis—Statement No. I). A graph showing the number of samples analysed and the number of samples found adulterated each year beginning from 1931 is also appended to this report.

Substantial improvement in checking the sale of adulterated foods has been expected ever since the deterrent punishments, prescribed under the new Act, came into force from 1st June, 1955. The expectation is being fully justified year after year as may be seen from the progressive fall in the percentages of adulteration touching the lowest figure of 27.8 per cent, during the year 1959. A slight rise in the percentage of adulterated samples for the year under report is however attributable to the high prices of foodstuffs tempting the adulterator to increase his activity.

It would be seen from Statement No. I that the steady decline in the percentage of adulterated samples has been maintained year after year, the figures being 40.7, 32.7, 32.5, 28.5 and 27.8 during the years 1955, 1956, 1957, 1958 and 1959 respectively as against 45.5 in 1954 prior to the enforcement of the Central Act.

This improvement can be attributed to the deterrent punishments prescribed under the new Act and also to the large increase in the number of samples handled by the laboratory at present, the highest since its beginning.

Milk is the most perfect of foods, and lends itself to be adulterated very easily. The prevention of adulteration of milk is, therefore, one of the important duties of the Government and the Local Authorities. As has been pointed out in previous reports, the elimination of the individual itinerant milk vendors should be the first step in any scheme for the effective prevention of milk adulteration. Milk supply co-operatives are the only solution to the problem, as such organized institutions would pay greater attention to the interests of the public. It would also be easier for the Corporation to control successfully such societies or distributing agencies. A very important and timely step in this direction has been taken by the Government in starting the milk colony at Madhavaram. 43.2 per cent of the milk samples were adulterated in 1960 as against 42.2 in 1959. The percentage of adulteration of butter in 1960 was slightly higher than in 1959, the respective figures being 16.5 and 16.2. The percentage of adulteration of ghee has also recorded a slight rise, it being 7.7 and 8.6 in 1959 and 1960 respectively. There has been an increase in the adulteration of groundnut oil and a slight decrease in the adulteration of the other two varieties of edible oils, namely gingelly oil and cocoanut oil. During 1960, the percentage of adulteration of gingelly oil was 8.7 against 9.3 in 1959, of groundnut oil 16.8 against 4.6 in 1959, and of cocoanut oil 2.6 against 2.9 in 1959. Adulteration of coffee powder continued to be low, the percentage of its adulteration in 1960 and 1959 being 7.7 and 8.0 respectively. Only one sample of tea was slightly adulterated with foreign (husk) material during the year under report, but the practice of coloring of tea with an orange-red coal-tar colour continued during 1960 also, such coloured samples forming 5.9 per cent in 1960 against 7.9 per cent in 1959. The colouring of turmeric with lead chromate has registered a considerable increase during 1960 as evidenced by the fact that 21 out of 57 samples of turmeric contained lead in excess of the prescribed limit of 2.5 parts per million as against 11 out of 40 samples in 1959. Out of 15 arrowroot samples, 8 were genuine during 1960. 5 samples of honey were analysed and all the samples proved to be genuine.

The details regarding the various articles of food analysed during the year under report are given below :—

Milk—4,642 samples of milk were analysed. Of these, 2,229 samples were cow's milk, 1,634 samples were buffalo's milk and 745 samples were sold under the description of mixture of cow's and buffalo's milk ; 19 samples were described as milk, without any description as cow's or buffalo's ; 2 samples were described as powder milk ; 2 samples were described as toned milk, 1 sample was described as kaipal, one sample as goat's milk, 5 samples as cow's, buffalo's and goat's milk, 2 samples as buffalo's and goat's milk and 2 samples as cow's and goat's milk.

Of the 2,229 samples of cow's milk, 1,248 were genuine and 981 were adulterated. Among the adulterated samples, 818 contained added water ranging from 4 to 82 per cent. There was deficiency in fat in 71 samples to the extent of 20 to 100 per cent and 92 samples were deficient in fat in addition to containing added water. The average values of fat and solids-not-fat for the 1,248 genuine samples of cow's milk were 5.1 per cent and 9.2 per cent respectively in 1960.

Of the 1,634 samples of buffalo's milk, 1,054 were genuine and 580 were adulterated. Among the adulterated samples, 508 contained added water ranging from 4 to 84 per cent, 27 samples were deficient in fat to the extent of 22 to 100 per cent and 45 samples were deficient in fat besides containing added water. The average values of fat and solids-not-fat for 1,054 genuine samples of buffalo's milk were 7.3 and 9.8 per cent respectively which were the same as those in 1959.

Among the 745 samples of mixture of cow's and buffalo's milk, 324 were genuine and 421 were adulterated. Among the adulterated samples 398 contained added water ranging from 4 to 67 per cent. 4 samples were deficient in fat to the extent of 20 to 60 per cent and 19 samples were deficient in fat besides containing added water.

19 samples were described as milk without any indication as to whether they have been derived from cow, buffalo, or goat. Under the Prevention of Food Adulteration Rules, 1955, the standards of buffalo's milk are applicable to such samples. 7 samples were genuine and 12 were adulterated. Among the adulterated samples, 10 contained added water ranging from 4 to 14 per cent, 1 sample was deficient in fat to the extent of 72 per cent and 1 sample was deficient in fat besides containing added water.

Two samples were described as powder milk, two as toned milk, one as kaipal, one as goat's milk, five as cow's, buffalo's and goat's milk, two as buffalo's and goat's milk and two as cow's and goat's milk. Of these, 11 samples were adulterated. One sample was deficient in fat, one was deficient in fat besides containing added water and the remaining 9 samples contained added water ranging from 5 to 58 per cent.

Among the 4,638 milk samples of all categories except the toned milk and powder milk dealt with in the previous paragraph 1,898 samples contained added water and the average content of added water in these 1,898 samples was 21 per cent against 20 per cent in 1959.

Butter.—583 samples were analysed, of which 487 samples were genuine and 96 were adulterated. In 90 of the adulterated samples, the water content ranged from 17.1 to 70.4 per cent, the prescribed maximum limit for water being 16 per cent under the provisions of the Prevention of Food Adulteration Rules, 1955. 39 of these 90 adulterated samples also contained fat other than milk-fat besides containing excess water. The remaining 6 adulterated samples of butter had a water content within the prescribed maximum limit, but contained fat other than milk-fat. The extent of adulteration with foreign fat among the 45 samples of butter which contained foreign fat ranged from 13 to 61 per cent, the average extent of adulteration being 31 per cent in 1960 against 21 per cent in 1959.

Ghee.—892 samples were analysed. Of these, 68 samples were adulterated with fat other than milk-fat, the common foreign fat used for the adulteration of these samples being Vanaspati (mostly hydrogenated groundnut oil). The extent of adulteration ranged from 12 to 98 per cent. The average admixture of foreign fat in the adulterated samples in 1960 was 51 per cent as against 45 per cent in 1959. Nine samples contained excess Free Fatty Acids calculated as Oleic Acid (maximum prescribed limit—3 per cent). The presence of excess free fatty acids is due to a deterioration in quality of the article.

Gingelly Oil.—1,143 samples were analysed, of which 86 were adulterated with groundnut oil to the extent of 5 to 100 per cent, and 5 samples were declared as adulterated as they contained both groundnut oil and excess Free Fatty Acids. Eight samples of gingelly oil which did not contain any admixture of foreign oil were certified adulterated due to the presence of excess Free

Fatty Acids, ranging from 1.3 per cent to 4.5 per cent calculated as Oleic Acid, which indicated that the oil had deteriorated in quality (maximum limit for Free Fatty Acids 3 per cent).

Groundnut Oil.—143 samples were analysed, of which 24 samples were reported as adulterated and they contained gingelly oil to the extent of 5 to 100 per cent.

Cocoanut Oil.—385 samples were analysed and 10 samples were adulterated with groundnut oil to the extent of 20 per cent to 95 per cent.

Coffee Powder.—286 samples, which included 2 samples of coffee powder blended with chicory, were analysed. Of the 286 samples of coffee powder, 22 were adulterated. Of the 22 adulterated samples, 4 samples contained preparation of Bengalgram to the extent of 5 to 80 per cent, and 18 samples contained preparation of a mixture of Bengalgram and Date Seed to the extent of 15 to 75 per cent.

Tea.—102 samples were analysed and 6 of them were reported as adulterated. Among the 6 adulterated samples, 5 contained an orange-red coal-tar dye and one sample contained foreign husk as mentioned earlier in this report.

Ghee Substitutes.—Of the 4 samples analysed, one was reported as adulterated as it contained Foreign Fat.

Other Articles.—There were 197 samples, under this head. These consisted of 92 samples of thoovar dhall, 57 samples of turmeric, 15 samples of arrow-root, 5 samples of honey, 20 samples of maida, one sample of chilli powder, 4 samples of lozenges, 1 sample of chilli (whole chillies), 1 sample of sooji and 1 sample of atta.

Out of the 92 samples of thoovar dhall, 35 samples were reported as adulterated as they contained a yellow coal-tar colour.

Of the 57 samples of turmeric, 21 were reported as adulterated as they contained lead to the extent of 20 to 200 parts per million parts of the samples (Maximum limit—2.5 parts per million).

Of the 15 samples of arrowroot analysed, 8 were reported as genuine, as the starch derived from either Maranta Arundinacea or Curcuma Angustifolia may both be sold as arrowroot. Six of the samples consisted of Maranta starch and 2 of Curcuma starch. Seven samples, which consisted of 100 per cent Tapioca starch (Manihot Utilissima) were certified as adulterated.

Twenty samples of maida were analysed. Of these, 19 samples of maida consisting entirely of wheat flour were genuine and 1 sample was reported as adulterated as it contained Tapioca starch to the extent of 100 per cent.

Five samples of honey were analysed. All the five samples proved to be genuine. The only sample of chilli powder analysed was adulterated One sample of chillies, one sample of sooji and one sample of atta were also anlaysed and reported as genuine.

Four formal samples of lozenges were analysed and one was found to contain prohibited colour and the vendor was prosecuted.

Besides the formal samples dealt with above which were taken under the Prevention of Food Adulteration Act, 1954, 563 miscellaneous samples were examined in the laboratory during the year under report. Of these, 352 were samples of milk taken informally from the Madras Co-operative Milk Supply Union in order to check the purity of their milk supply before the milk was released for distribution in the City. These were in addition to the formal samples taken regularly from the sales depots and delivery boys of the Union, which are included among the formal samples dealt with in the earlier part of this report.

A statement of the miscellaneous samples is given below :—

Source.	*Nature of sample.*	*Results of analysis.*
Madras Co-operative Milk Supply Union, Ayanavaram.	353 samples of milk ...	334 samples were genuine, 18 samples were adulterated with added water (3% to 9%) and 1 sample was below standard.
Health Department ...	43 samples of rice ...	Relative qualities were reported upon.
	15 samples of thoovar dhall.	Do.
	5 samples of turmeric.	Do.
	7 samples of milk powder.	Unfit for human consumption.
	1 sample of milk ...	Adulterated (67% added water).
	1 sample of bleaching powder.	Contained13.9% Chlorine. (Available)
Infectious Disease, Hospital, Tondiarpet.	1 sample of ward milk.	Adulterated (4% added water).
	2 samples of cow's milk.	Genuine.
	1 sample of coffee powder.	Do.
Food Inspectors ...	4 samples of maida ...	Folidol absent.
	5 samples of kesari powder.	Contained metanil yellow.
	3 samples of sweets ...	Dulcin absent and Saccharine present.
	20 samples of coloured aerated drinks.	Contained Saccharine and permitted artificial colouring matter only.
	1 sample of C & B Orange Jelly.	The stuff was alright except for very slight smell due to storage.

Electrical Department.	74 samples of transformer oils.	Reports on the inorganic and organic acidities were made.
Director, Ashok Vihar ...	1 sample of butter oil.	Genuine.
	1 sample of multi-purpose food.	Unfit for human consumption.
Lady Superintendent, Child Welfare Centre.	1 sample of skimmed milk.	Do.
Superintendent, Special Home.	1 sample of cow's milk.	Adulterated (27% added water).
Special Officer for Milk.	12 samples of milk ...	Reported upon their quality.
Milk Commissioner ...	2 samples of milk ...	Do.
Dairy Supervisor, Madhavaram Milk Colony.	3 samples of milk ...	Do.
Manager, Madras Co-operative Milk Supply Union.	4 samples of milk ...	Adulterated.
Madras Port Trust ...	1 packet of UNICEF milk powder.	Unfit for human consumption.
Honorary Secretary, Thiruvoteeswarar Free High School.	1 sample of non-fat dried milk.	Fit for human consumption.

A tabular statement of the action taken on the adulterated samples of 1960 and those of 1959 pending disposal on 1st January, 1960 is given in the Appendix (Food Analysis—Statement No. II).

The number of samples reported as adulterated during the year under report was 2,406. Out of these, 132 samples were only very slightly adulterated and no prosecutions were instituted in these cases. Prosecutions of vendors were instituted in respect of the remaining 2,274 adulterated samples.

Of the 2,274 prosecutions instituted, convictions were obtained in 580 cases. There were 10 dismissals and one acquittal and the remaining 1,683 cases were pending disposal on 31st December, 1960. 551 convictions, 9 acquittals, 19 dismissals, 1 admonition and 6 withdrawals were obtained among the cases relating to samples taken prior to 1–1–1960.

The total number of convictions for the sale of adulterated articles of food in 1960 was 1,131 as against 1,653 in 1959. The amount of fines imposed in 1960 was Rs. 54,555 against Rs. 77,045 in 1959. The average fine per conviction in 1960 was Rs. 48 against Rs. 46 in 1959. The maximum and the minimum fines imposed in the year 1960 were Rs. 300 and Rs. 10 respectively. Among the convictions of the year 1960, in one case the accused was fined Rs. 30 and was sentenced to undergo rigorous imprisonment for two months and in another case the vendor concerned was fined Rs. 50 and also sentenced to undergo one month rigorous imprisonment.

During the year 1960, under Court orders, a stock of 339 lbs. of adulterated tea was destroyed at the cost of the party, under the provisions of the Prevention of Food Adulteration Act.

During the year 1960, the staff of the Public Analyst's Laboratory were as follows :—

Public Analyst—

1. Thiru S. Sundaram, M.A.

Senior Assistants—

1. Thiru R. Ramalingam, M.SC.
2. Thiru V. V. Ramana Rao, M.SC.

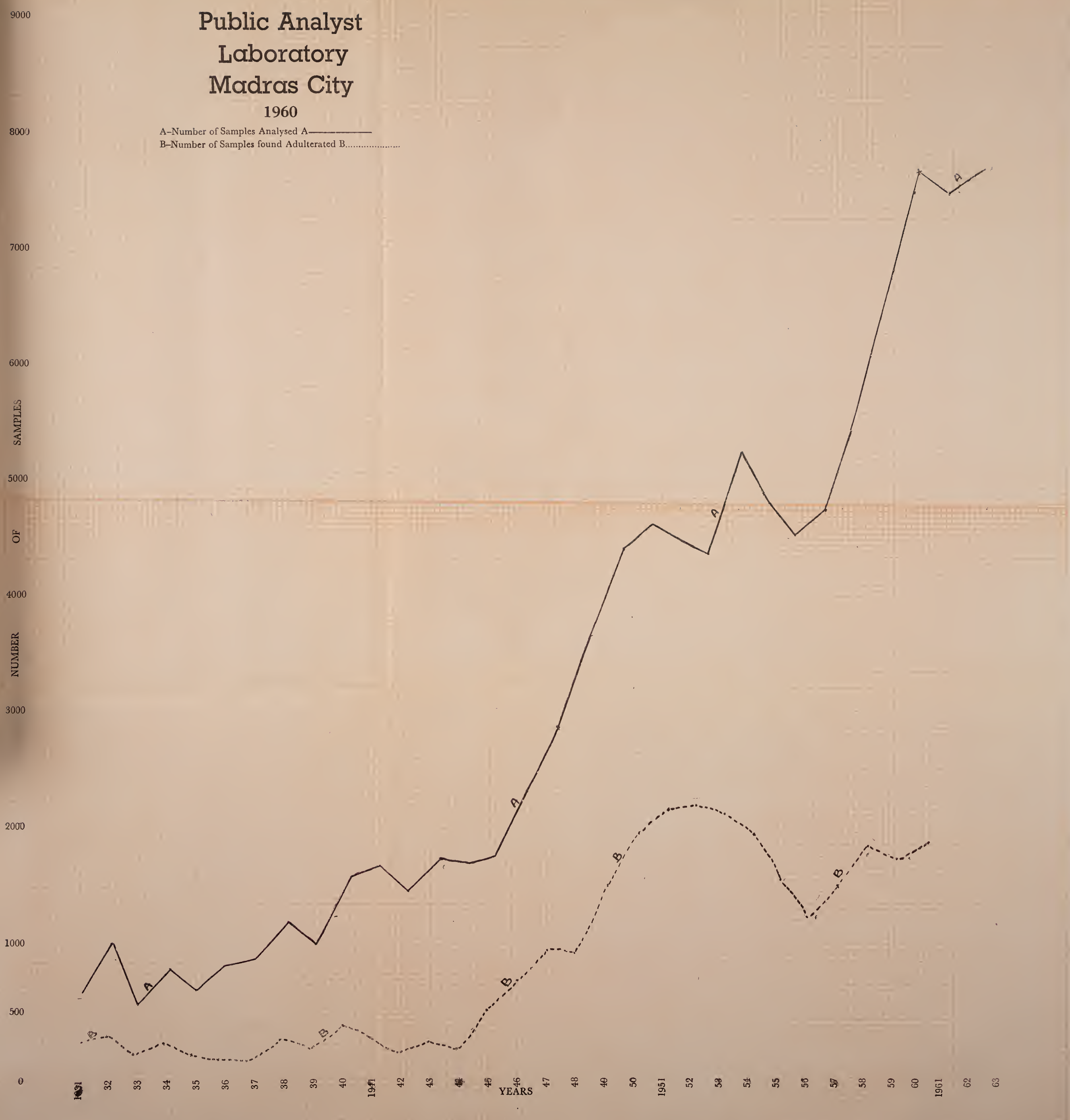
Grade I—Junior Assistants—

1. Thiru C. Rajaganapathi, B.SC.
2. Thiru R. Mohan Rajan, B.SC.

Grade II—Junior Assistants—

1. Thiru C. Sambandam, B.SC.
2. Thirumathi V. J. Rani Basker Rao, B.SC. (Hons.).
3. Thiru M. G. Swamy, B.SC. (from 7-3-1960).

Though the number of samples analysed under the Prevention of Foop Adulteration Act, 1954 has been increased and the penalty imposed by the Court has also been increased, yet the percentage of adulteration showed a slight rise during this year 1960 instead of showing the expected improvement. This is due to high prices of foodstuffs tempting the adulterator to increase his activity. It is expected that the desired result of eradicating this anti-social evil of food adulteration can be achieved if the price structure of food articles eases and the supply position improves.



Public Analyst Laboratory Madras City

1960

WATER ANALYST'S LABORATORY.

Introduction.

The Water Analysis, Laboratory at Kilpauk, continued to be under the charge of the fully qualified Water Analyst Sri V. Kripakaran. Taking of water samples at test taps and other places of the distribution system of the protected water supply and also samples of well water from private houses and ponds in the City and analysis work in the Laboratory was carried on by him with the help of his 3 Assistant Water Analyts and attenders.

The Water Analyst's Laboratory is 38 years old. During the year under review the water-supply to the City continued to be a chlorinated mixture of filtrates from the Slow Sand Filters and the Rapid Mechanical Filters. On an average 30 to 33 million gallons of raw water were pre-chlorinated with a dose varying from 1.4 to 2.5 p.p.m: a day. About 22 to 23 million gallons of chlorinated raw water were strained through sand-filters with 6" of fine sand as filtering medium (which were worked without any fixed rate of filtration) while the rest was treated with alum (2 to 4.4 grains per gallon) flocculated, clarified and filtered through Rapid Mechanical Filters. The filtrates of indifferent quality as obtained from the sand filters, were mixed with the filtrates of fairly good quality as obtained from the Rapid Mechanical Filters, chlorinated to a dose varying from 1.5 to 3.6 p.p.m. and supplied to the City.

The processed water, while being distributed, deteriorated to a certain extent both aesthetically and bacteriologically. Though, smell of sulphuretted Hydrogen was generally absent in the distribution system, a few Blood Worms and fresh water Leeches made their appearance at the consumers' tap in only a very few localities. Systematic scouring and sterilisation of the mains served to set right the defects.

Scientific.

Water supply to the City is derived from three different sources, namely, (A) The Kortalayar River System, (B) The Infiltration Gallery Wells at Saidapet and Sembium and (C) The Shallow Wells at Adayar, Kodambakkam, Guindy, North Madras, Triplicane and on the shores of Marina. The physical, chemical and bacteriological character of the water in each of the above three sources during the year are briefly recorded below :—

(A) *The Kortalayar River System.*—The river Kortalayar is dammed at Poondi, about 32 miles away from the City and Sathyamoorthi Sagar has been formed for storing the flood discharges. The stored water is let down through the river bed and another channel called the upper supply channel into the Sholavaram Reservoir and from the latter water is let down through the Lower Supply Channel into the Red Hills Reservoir. The water from the Red Hills Reservoir gravitates through two closed masonry conduits into the Head Works, at Kilpauk. The above sources were visited by the Water Analyst or his

Assistants periodically during the year and samples were collected and analysed. The results of analysis are shown in the Water Analysis Statement Nos. III, IV and V.

I. *Sathyamoorthy Sagar* (*vide Statement No. II*).—The total yearly rainfall recorded at Poondi was 58.58″ as against 39.72″ recorded during last year. The highest rainfall of 29.77″ was recorded in November 1960. The average reservoir level was 131.77′ in January and decreased to 118.01′ in September and then increased to 137.76′ in December.

Physical, Chemical and Bacteriological (*vide Statement No. III*).—The water was greenish in Feb., April and May, yellowish in October and whitish in November and December. The temperature of the water varied from 27°C to 34°C. Chemically, the pH varied from 8.4 in October and November to 9.5 in December. The Alkalinity varied from 16.2 p.p.ht. in February to 21.0 p.p.ht. in October. The hardness of water varied from 7.2 p.p.ht. in May to 14.2 p.p.ht. in October. The chlorides varied from 1.5 p.p.ht. in November to 6.6 p.p.ht. in May. Nitrites were present in October and November and Nitrates were almost absent in February, April and May, November and December, but present in October. Ammoniacal Nitrogen varied from nil to 0.003 p.p.ht. and Albuminoid Nitrogen varied from 0.002 p.p.ht. to 0.240 p.p.ht. The Oxidisable Organic matter varied from 0.142 p.p.ht. to 0.870 p.p.ht.

The salinity varied from 22.6 to 44.0 p.p.ht. Coliform organisms were present in volumes varying from 1 to 5 c.c.

II. *The Sholavaram Reservoir* (*vide Statement No. II*).—The total rainfall recorded in the catchment area of this reservoir was 57.96″ as against 44.17″ recorded during last year. The monthly average water level varied from a minimum of 49.49′ in September to a maximum of 60.42′ in December.

Physical, Chemical and Bacteriological (*vide Statement No. IV*).—The water was yellowish green during January to May, yellowish white during August and September and slightly yellowish during October, November and December. The temperature of the water varied from 26.5°C to 34.0°C.

Chemically, the pH of the water varied from 8.9 in February and April to 7.7 in November. The Alkalinity varied from 12.4 p.p.ht. in January to 21.5 p.p.ht. in August and decreased thereafter to 9.2 p.p.ht. in December. The hardness varied from 7.2 to 10 p.p.ht. The Chlorides varied from 2.1 to 5.4 p.p.ht. Nitrites were almost absent and nitrates were present in January and almost absent during rest of the year. Ammoniacal Nitrogen varied from nil to 0.003 p.p.ht. and Albuminoid Nitrogen varied from 0.048 to 0.096 p.p.ht. during January to October and thereafter decreased to 0.008 p.p.ht. during November and December. The Oxidisable Organic matter increased from 0.145 p.p.ht. in January to 0.387 p.p.ht. in May and thereafter decreased to 0.136 p.p.ht. in December.

The salinity increased from 20.4 p.p.ht. in January to 52.0 p.p.ht. in September and thereafter decreased to 10.4 p.p.ht. in November.

Coliform organisms were present in volumes varying from 1 c.c. to 10 c.c.

III. *The Red Hills Reservoir* (*vide Statement No. II*).—The total rainfall recorded in the lake region was 41.42″ as against 38.83″ recorded during last year. The monthly average water level was 44.49′ in March, decreased to 36.31′ in September and increased thereafter to 45.7′ in December.

Physical, Chemical and biological conditions (*vide Statement No. V and Graph No. I*)—*Physical Conditions*—1. *colour*.—The water was yellowish green during January to April, greenish in May, greenish yellow in August, yellowish green to yellowish during September to December.

2. *Turbidity*.—The turbidity of the water fluctuated between 15.5 p.p.m. to 29.0 p.p.m. Turbidity was low during May and September and high during August, November and December. This was probably due to freshes contributed by the North East Monsoon.

Temperature.—The temperature of the water was 28°C in January, increased to 33°C in September, and decreased to 26°C in December.

Chemical Conditions.—The pH of the water ranged from 8.1 to 9.0. pH was low during January, November, moderate during February, April, May, August and December and maximum during September and October. The water was alkaline throughout the year.

Free Carbondi-oxide.—The water was devoid of free carbondi-oxide throughout the year.

Carbonates.—Carbonates varied from 0.12 p.p.ht. to 1.68 p.p.ht. Carbonates were low in January, April, October, November and December, moderate during May and September and high during August probably due to splitting up of bi-carbonates by photosynthetic process of phytoplankton.

Bi-carbonates.—Bicarbonates varied from 7.1 to 18.2 p.p.ht. Bicarbonates were low during November and December and high during rest of the year. Thus it could be inferred that bi-carbonates were split up by phytoplankton during April to September as evidenced by an increase in the carbonate content of the water during the period.

Hardness.—The water was generally soft during the year, the hardness varying from 4.8 to 8.6 p.p.ht.

Dissolved oxygen.—Dissolved oxygen varied from 3.64 c.c./litre to 6.51 c.c/litre. Percentage of saturation varied from 71 to 188. The water was under-saturated during April, saturated during January, May & December and super-saturated during February, August, September, October and November. The curve for the precentage saturation of Dissolved Oxygen bears relationship with that for the number of Plankton Organisms enumerated in the water. As for November and December though the water was saturated with Oxygen the reduction in the plankton organisms can be accounted for by dilution of the water due to North East Monsoon.

Phosphates.—Phosphates were absent during August and November and present during rest of the year.

Silicates.—Silicates varied from 0.4 to 3.2 p.p.ht. It increased from 0.4 p.p.ht. in February to 3.2 p.p.ht. during November and December.

Tidy's (Oxidisable Organic Matter.)—The figures for Tidy's test was 0.207 p.p.ht. in January increased to 0.323 p.p.ht. in May, decreased to 0.240 p.p.ht. in September and again increased to 0.330 p.p.ht. in October and decreased to 0.177 p.p.ht. in December. The curve for Tidy's seem to bear an inverse relationship with lake level.

Albuminoid Nitrogen.—The figures for Albuminoid Nitrogen was high during February, May and September and low in December.

Biological.—From the graph it could be seen that the Planktonic Organisms were low during the months of November and December probably due to dilution consequent on the setting of North East Monsoon. They were at maximum during January and August and moderate during rest of the months.

Following is the list of the plankton found in Red Hills lake during the year :—

(ccc)	(cc)	(c)	(r)
Oscillatoria.	Oocystis.	Synedra.	Paramoecium.
Anabaenopsis.	Chroococcus.	Navicula.	Brachionus.
Merismopaedia.	Melosira.	Cosmarium.	Bursaria.
Microcystis.	Coelospherium.	Euglena.	Peridinium.
Spirulina.	Staurastrum.	Phacus.	Scenedesmus.
	Trachelomonas.		
(ccc) Abundant.	(cc) Very common.	(c) Common.	(r) Rare.

From the above it could be seen that among the Phytoplankton, Cyanophyceae was the dominant group represented by quite a large number of species.

IV. *Chlorinated Raw Water (vide Statements No. VI and X and Graph No. II).*—The raw water, reaching the Kilpauk Water Works was chlorinated with gaseous chlorine just a few minutes before reaching the sand filters and the flocculators. The dose of chlorine applied to the raw water varied from 1.4 to 2.5 p.p.m. The percentage of samples showing absence of Coliform organisms in 60 c.c. volumes varied from 20 to 100.

The monthly variation in the concentration of some of the salient constituents of the chlorinated raw water were as given below :—

		Yearly range in p.p.ht.
pH	...	7.9 to 8.5
Chlorides	...	1.5 to 5.8
Hardness	...	5.2 to 8.9
Ammoniacal Nitrogen	...	0.002 to 0.014
Albuminoid Nitrogen	...	0.044 to 0.120
Oxygen Absorbed	...	0.146 to 0.305
Iron	...	Tr. to 0.015
Turbidity (p.p.m.)	...	18.5 to 28.5

Chart. II.

Madras City Water Supply: Distribution System

Chemical & Bacteriological Conditions

1960

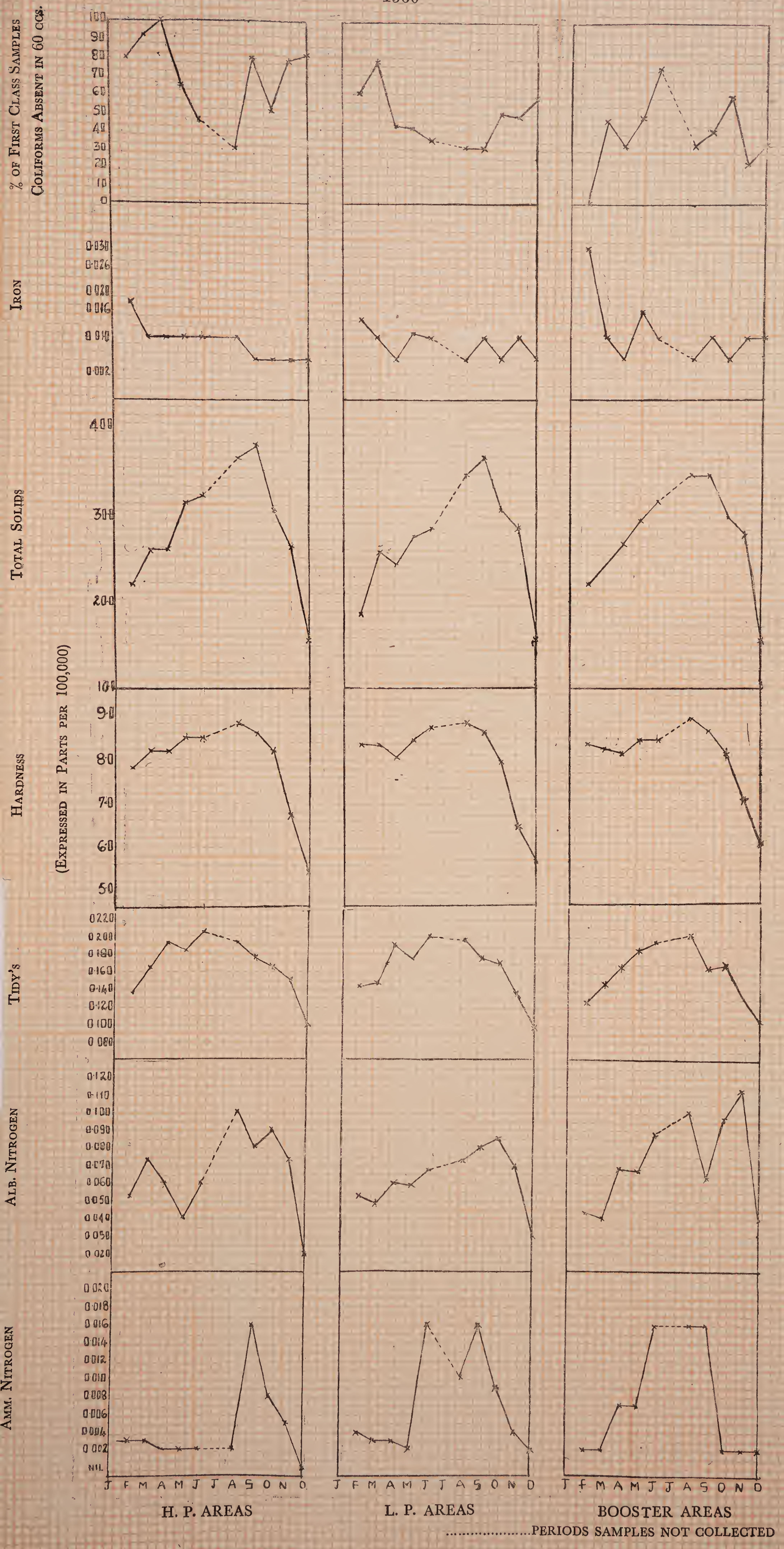
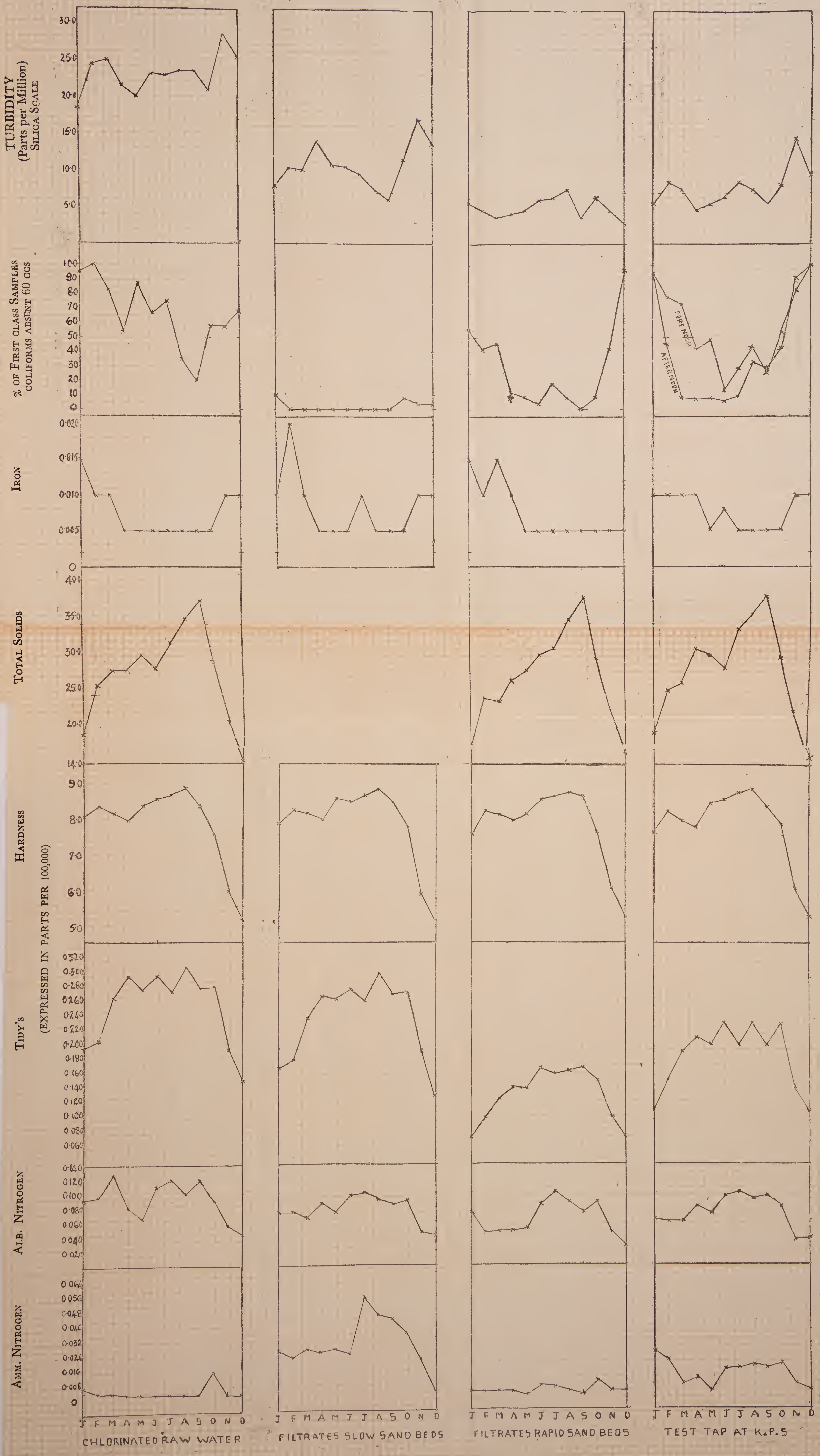


CHART. I.

Showing City Water Supply: Head Works

(Physico—Chemical & Bacteriological Conditions)

1960



V. *Sand Filters and Filtration* (*vide Statements No. VII and X*).—There are 17 sand filters, with 6″ of fine sand as the filtering medium. They are not worked with any fixed rate of filtration. The filtrates are therefore of indifferent quality. During the year under review, on an average, 10 to 13 beds were in commission every day and the quantity of water strained varied from 22 to 23 million gallons a day.

On the chemical side, the quality of the filtrates were almost of the same quality as that of the chlorinated raw water. The percentage of reduction in the Tidy's figure over the corresponding figure for the chlorinated raw water varied from 2 to 16.

Bacteriologically, 0 to 10% of the samples examined showed the absence of coliform organisms in volumes of 60 c.c. and upwards.

The monthly variation in the concentration of some of the important constituents of the filtrates from the sand filters were as given below :—

	Yearly range in p.p. ht.
pH ...	7.5 to 8.1
Chlorides ...	1.8 to 5.9
Hardness ...	5.2 to 8.9
Ammoniacal Nitrogen ...	0.002 to 0.054
Albuminoid Nitrogen ...	0.040 to 0.099
Oxygen Absorbed ...	0.123 to 0.299
Iron ...	Tr. to 0.020
Turbidity (p.p.m.) ...	6 to 17

It could be seen from above that inspite of the application of a fairly high dose of chlorine to the raw water feeding the sand filters, the filtrates from the beds were of poor bacteriological quality.

VI. *Rapid Mechanical Filters* (*vide Statements No. VIII and X*).—About 5 to 10 million gallons of chlorinated raw water was again chlorinated with a dose of 2.0 to 2.4 p.p.m. to bring down the algal load prior to alum treatment. The chlorinated raw water was treated with alum with a dose varying from 2.0 to 4.4 g.p.g. flocculated, clarified and filtered through Rapid Mechanical Filters. The quantity of filtrates varied from 4.44 to 10 m.g.d.

Chemically, the quality of the filtrates from the Rapid Mechanical Filters was far better than those from the Slow Sand Filters. The percentage of reduction in the Tidy's figure over that for the chlorinated raw water varied from 40 to 55.

On the bacteriological side, 0 to 96% of the samples examined showed the absence of coliform organisms in volumes of 60 c.c. and upwards.

The variation in the concentration of some of the salient constituents were as given below :—

	Yearly range in p.p.ht.
pH ...	6.9 to 7.5
Chlorides ...	2.0 to 5.9
Hardness ...	5.3 to 8.8
Ammoniacal Nitrogen ...	Nil to 0.005
Albuminoid Nitrogen ...	0.028 to 0.100
Oxygen Absorbed ...	0.066 to 0.165
Iron ...	Tr. to 0.015
Turbidity (p.p.m.) ...	2.7 to 7.4

VII. *Test Tap at K.P.S.* (*vide Statements No. IX and X*).—The samples of water collected from the test tap at K.P.S. represented the mixture of chlorinated filtrates from the slow sand filters and the Rapid Mechanical Filters. On the chemical side, the quality of the samples was the resultant of the individual quality of the filtrates from the rapid Mechanical Filters and Slow Sand Filters owing to the blending effect.

On the bacteriological side, 13 to 100% of the samples collected at 11 a.m. and 5 to 100% of the samples collected at 4 p.m. showed the absence of coliform organisms in volumes of 60 c.c. and upwards. From the above it can be seen that the quality of the samples collected at 11 a.m. was better than those of the samples collected at 4 p.m. A residual of 0.2 to 0.4 p.p.m. of chlorine was generally maintained at the test tap.

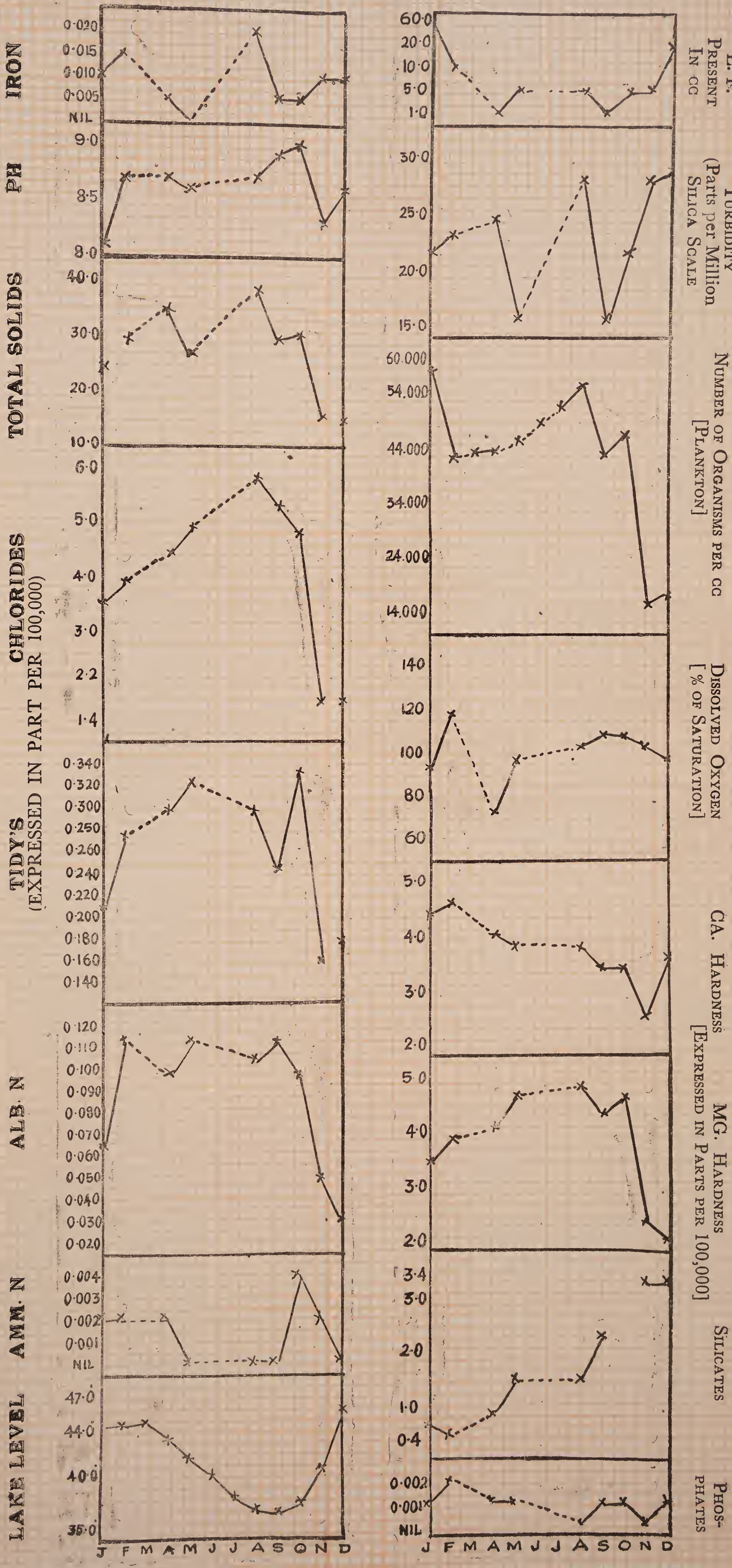
The variation in the concentration of some of the salient constituents were as given below :—

	Yearly range in p.p.ht.
pH ...	7.1 to 7.7
Chlorides ...	2.1 to 6.2
Hardness ...	5.3 to 8.9
Ammoniacal Nitrogen ...	0.002 to 0.024
Albuminoid Nitrogen ...	0.032 to 0.100
Oxygen Absorbed ...	0.101 to 0.227
Iron ...	Tr. to 0.010
Turbidity (p.p.m.) ...	4.7 to 14.4

VIII. *The City Distribution System* (*vide Statements No. XI a, b, c and Graph No. III*).—The water distributed, deteriorated to a certain extent during transit through the lengths of mains. Such deteriorations were more marked in low pressure areas and at tail ends of the distribution system. Bacteriologically, 30–92%, 31–78% and 0–75% of the samples collected from the

CHART. III.

SHOWING PHYSICO CHEMICAL & BIOLOGICAL CONDITIONS
OF
RED HILLS RESERVOIR 1960



........PERIODS SAMPLES NOT COLLECTD

DATA FOR RAW WATER FROM CONDUIT

high pressure, low pressure and Booster areas respectively showed the absence of coliform organisms in volumes of 60 c.c. and upwards on examination.

The variation in the concentration of some of the salient constituents of the samples of water distributed were as given below :—

	Yearly range in parts per 100,000.		
	H.P. Areas.	*L.P. Areas.*	*Booster Areas*
pH ...	7.2 to 7.6	7.2 to 7.6	7.3 to 7.7
Chlorides ...	2.0 to 6.4	2.1 to 6.5	2.2 to 6.1
Hardness ...	5.4 to 8.8	5.6 to 8.8	6.0 to 8.9
Ammoniacal Nitrogen ...	Nil to 0.016	0.002 to 0.016	0.002 to 0.016
Albuminoid Nitrogen ...	0.020 to 0.100	0.030 to 0.085	0.040 to 0.100
Oxygen Absorbed ...	0.100 to 0.206	0.093 to 0.200	0.104 to 0.203
Iron ...	Tr. to 0.018	Tr. to 0.014	Tr. to 0.016
% of samples showing absence of coliform organisms in 60 c.c. and upwards ...	30 to 92	31 to 78	0 to 75

(*B*) *The Infiltration Gallery Wells at Sembiam and Saidapet* (*vide Statements No. XII and XIII*).—Sembiam and Saidapet areas of the City are being supplied with chlorinated water, drawn from two infiltration gallery wells to supplement the Red Hills water. The water from the infiltration gallery at Sembiam contained iron in suspension and as such the water was chlorinated at the headworks and then lime-treated at the overhead tank and distributed. Filtration of the treated water is desirable to hold back the precipitated iron prior to distribution.

In case of Saidapet, the water from the infiltration gallery was of satisfactory chemical quality and as such the water was just chlorinated and distributed. The salient chemical characteristics of both the water were as given below :—

	Yearly range in parts per 100,000.	
	Sembium.	*Saidapet.*
pH ...	6.9 to 7.1	6.9 to 7.6
Chlorides ...	3.3 to 33.0	9.6 to 18.0
Hardness ...	4.8 to 33.0	14.8 to 25.0
Ammoniacal Nitrogen ...	Nil to 0.003	Nil to 0.003
Albuminoid Nitrogen ...	Nil to 0.003	Nil to 0.004
Oxygen Absorbed ...	0.017 to 0.053	0.029 to 0.053
Iron ...	0.015 to 0.150	Nil to 0.025

The bacteriological qality of the distributed watei in both the areas were quite satisfactory. The percentage of the samples showing the absence of coliform organisms in volumes of 60 c.c. and upwards varied from 44 to 89 in Sembium and 0 to 100 in Saidapet.

(C) The Shallow Wells Supply in some of the outlying areas and in poorly served areas of the City (*Statement No. XIV*).—The shallow wells, located at Ganapathy Colony (Guindy) served to supplement the Red Hills water supply to Guindy. The water drawn from the well was just chlorinated and distributed. The wells located at Urur village and Kottur village served as source of water supply to Adyar area. The wells in the United India Colony, Puliyur (Kodambakkam), Nagappier Street (Triplicane), Chellapilliar Koil Street (Triplicane), Solayappan Street (Washermanpet) and on the Marina served as sources of water supply to Kodambakkam, Triplicane and Washermanpet areas. The water pumped from the above wells were just chlorinated and distributed.

All the shallow wells with the exception of the one at United India Colony, Kodambakkam, yielded water of satisfactory chemical quality.

Sterilisation of Water Mains (*vide Statement No. XV*).—The sterilisation of water mains was continued during the year under report. A systematic programme of sterilisation of the mains was followed up with the aid of two chlorine injecting plants. 21 miles and 7 furlongs of mains were sterilised. In all 2,340 lbs. of chlorine were used during the course of 193 days with the plant No. 1 and 170 days with the plant No. 2. Samples were collected before and after treatment wherever facilities were available and were examined. 52% of the samples collected before sterilisation and 92% of the samples collected after sterilisation showed the absence of coliform organisms in volumes of 60 c.c. and upwards.

Effects of Sterilisation.—Brown, flocculent, soft deposits were dislodged from the sterilised portions of the mains when scoured on the following day. The deposits consisted mainly of ferric oxide, organic matter and iron bacterium Siderocapsa sp. and Leptothrix ochraceae. There was an increase in the iron content immediately after sterilisation, followed by a reduction thereafter. Leeches and worms if present were eradicated. An improvement in the bacteriological quality of the water distributed was generally noticed.

From the above it is evident that the injection of chlorine into the mains has improved the condition of mains and also the general quality of the water distributed. Sterilisation is now considered as a positive and effective measure against the infestation of the mains by leeches and blood worms. Sterilisation of the mains has also served as a precautionary measure against the prevalence of cholera and enteric fever in the City.

During the year under report, a sum of Rs. 720 was realised by way of fees for analysis of samples received from private parties.

ASHOK VIHAR.

Health and Recreation Centre.

The 'Ashok Vihar', Health and Recreation Centre (a modern venture in Public Health trends) which had its inspiration from the Peckham Health Centre, London, was inaugurated on the 29th of May, 1948 by the Corporation of Madras.

It aims at serving the poor and the ignorant by improving the health of its member families primarily through preventive health and social measures. Being the only socio-medical centre, it has been of immense help to the students of medicine, nursing and social work, as a teaching and training centre. Principles of social medicine was imparted to the personnel of the Community Development Blocks not only from our State but also from the other States of the Union Government. Over 1,000 students were benefited during the year under review.

In addition to the intensive health work done among the nearly 300 member families of the centre, the maternity, family planning, pediatrics and dispensary services were extended to the other local people also.

During the year the centre undertook to give injections to immunize children against diphtheria, whooping cough and tetanus, a report of which has been given under immunizations.

1. *Service to Member Families*—.

During the year 45 families with an income of not more than Rs. 150 whose residences are at a reasonable walking distance from the centre were enrolled as member on payment of a token membership fee of 6 nP. per family and 60 families were removed during the year.

Particulars of families—

Total No. of families on rolls on 1st January 1960 ...	314
Total No. of families enrolled during the year ...	45
Total No. of families removed during the year ...	60
Total No. of families on rolls on 31-12-1960 ...	299

Monthly Income.

Income.	Nil	Under Rs. 50.	Rs. 51–100.	Rs. 101–150.	Over Rs. 150.
No. of families.	23	129	124	22	11

Children Per Family.

No. of children ...	None	1	2	3	4	5	6	7	8	9	10	11
No. of families ...	10	51	57	55	45	37	28	10	3	...	2	1

Caste.

Caste.	Harijans.	Harijan converts	Hindus.	Muslims.	Anglo-Indians.	Indian Christians.
No. of families ...	92	37	107	28	22	13

Residence.

Residence.	Periamet	Periamet slums	Choolai	Choolai slums	Chintadripet.	Chintadripet slums.	Other areas.	Other area slums.
No. of families.	52	96	5	43	47	12	24	20

Slum families	...	171
Non-slum families	...	128

Year of Enrolment.

Year.	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
No. of families on rolls.	21	13	15	11	18	6	23	32	30	28	28	30	44

1. *Health Services*—

(*A*) Preventive—

(1) *Periodic Health Check-up*—

The annual health check-up to individuals in the families was continued during the year. The members evinced a keen interest in the Health check-up and to such of those who needed pathological investigations, free investigations were done at the Corporation Public Health Laboratory and those requiring X-ray photos of chest before treatment were sent to the T.B. Clinic at Pulianthope.

The Health check-up has been of great importance in detecting diseases at their initial stages and prompt measures were adopted to treat the diseases.

The parents were particular about the periodic health check-up for their children and this is a heartening sign indicating that these low income and low educated group people are tending more towards preventive aspect of diseases and promotion of health.

770 general, 262 eye, 176 dental, 133 E.N.T. check-ups were done during the year. About 6% of the total individuals examined showed no apparent defects. Of the 556 persons re-examined increase in weight was observed in 419 cases, reduction in 116 and the weight was stationary in 21 cases.

The following diseases were noted during the check-ups and necessary steps were taken to treat them :—

Deficiency diseases	...	83
Anaemia	...	29
Pulmonary tuberculosis	...	18
T. B. adenitis	...	1
Respiratory infectious	...	156
Digestive diseases	...	48
High blood pressure	...	9
Cardiac diseases	...	11
Venereal diseases	...	4
Dysentery and diarrhoea	...	127
Helminthic infectious	...	53
Skin diseases	...	10
Ear, nose and throat diseases	...	59
Eye infection	...	74
Error of refraction	...	48
Typhoid	...	3
Filariasis	...	12
Hansens disease	...	2
Eosinophilia	...	4
Inf. Hepatitis	...	4
Diseases of teeth	...	12

Nutritional deficiencies were found to be predominant, probably owing to the high cost of the food commodities together with their adulteration. Eighteen cases of Pulmonary tuberculosis and 2 other tubercular infections received treatment in the T.B. Clinics. There was a heavy incidence of the dysentery and diarrhoea and among the cases of dysenteries, Bacillary dysentery was on the increase. The increase in the incidence of diarrhoea was probably due to irregular feeding and indigestion of contaminated food. Among the worm infestations, round-worm infestation was predominant, the next being, infection due to giardia lamblis. There were a few cases of hook-worm infestation.

566 pathological investigations were done and 265 investigations recorded positive findings. Thirty persons were referred to the T.B. Clinics of which 18 were found to be suffering from Pulmonary T.B, one with T.B. aderitis and the other with T.B. spine. 149 persons were referred to various other Government Hospitals or expert opinion or admission. F.R. No. 215, Sri Manikkam opticatrophy who was losing his eye sight gradually, was sent to Government Opthalmic Hospital for treatment.

The following operations were arranged at Government Hospitals :—

1.	Vasectomy ...	5
2.	Tonsilectomy ...	3
3.	Salpingectomy ...	1
4.	Caesarian ...	1
5.	Herniotomy ...	1
6.	Appendicetomy ...	1
7.	Fracture bones ...	3
8.	Lencoma—Eye (operated) ...	1
9.	Polypns nose ...	1

There was a greater tendency for members to take to preventive medicine and again one noticed their eagerness to get the diseases quickly treated.

In general the health of the members have been fairly satisfactory in spite of their bad economic and environmental conditions.

(*b*) *Periodic Immunization*—

There is no doubt that the members have been convinced of the value of inoculations to prevent unnecessary infectious diseases as is evidenced from their volunteering for the necessary inoculations periodically. Inoculation against typhoid and vaccination against small-pox were an annual routine. Manteaux test was done and those who were negative received B.C.G. This year an effort was made to popularise the inoculation against diphtheria, whooping cough and tetanus.

553 children were started with triple immuniogen of whom 211 completed the course of 3 injections, 207 children received only one injection and 135 children received two injections.

Causes for failure of completing the course—

Ill-health ...	68
Developed whooping cough after the first inoculation.	182
Gone out of town ...	52
Dead ...	2
Health deteriorated due to inoculation (as alleged).	38

c) *Health Education*—

Heath education, this year, was continued through periodic talks to individuals and groups, and film shows. There were 20 film show days when 56 films were screened.

(*d*) *Recreation*—

Recreation, physical, mental, in-door and out-door was continued as in the previous years. Volley ball continued to be the most popular of the outdoor games with badminton coming next. As there are no proper ground facilities foot-ball had to be curtailed. Among the in-door games, table tennis, carroms, weight lifting and boxing were popular. Once again Sri N. Kanaga Rao, F.R. No. 183, won a few boxing tournaments both as an amateur and a professional. Sri S. Harry, F.R. No. 110, won the carrom singles and doubles in a tournament conducted by Messrs. Parry & Co. Table tennis had attracted quite a few members and about 8 of them competed in open tournaments. Sri Chinnikrishnan won the junior cup conducted by the S.L.V.S. Club, Broadway. Miss Usha Abraham was the runner up in the Ladies' singles event conducted by the Y.M.I.A., Madras-1.

Annual sports were held during the first week of June, 1960 when quite a good number of members, young and old, men and women took part. Prizes and certificates of merit were distributed during the 12th Anniversary celebrations.

The Ashok Vihar Dramatic Association put up two dramas during the Anniversary celebrations.

Handicrafts—

1. For one more year the binding section was idle for want of orders.

2. The only sewing machine in the Women's section was in great demand. There were members who used the machine for sewing garments and others who used it for learning. The need for another sewing machine was keenly felt. More than 20 women used the machine for preparing domestic garments. 298 different garments were made during the year.

Garment Mending—

417 garments belonging to various sections were mended by women and girl members.

Badminton Net Making—

Though there were 6 women trained in the above craft, no work could be turned out by them due to want of orders from the Education Department of the Corporation of Madras.

Other handicrafts taught were lace making, crochet work, embroidery, dress cutting, rag doll making, paper flower making, cardboard and clay work.

A kolam competition was held when 10 women and 6 girls took part. Prizes were awarded to the best 3 designs.

Cultural, social and health education were given to the members in the afternoons at the centre. Library books were issued to boys and girls. Music and dancing by girls and boys were held from time to time.

There was a magic show by Sri Jayasekar and the members enjoyed the show.

Excursions were arranged to Ennore and Gandhi Mantapam, Guindy.

Personal Hygiene—

Attention was paid to personal hygiene by the lady and girl members. The bath room that was provided was of great use for them to take daily baths and to wash their clothes. Towels, soap, hair oil, mirror and combs were given to keep themselves neat and tidy.

Home Visits—

The object of these visits was to foster a better relations between the workers and the members. Two doctors and two social workers made periodic visits to the homes of the member families—110 visits were made by each member of the staff during the year. As the mobile medical van was sent to I. D. Hospital for emergency work, the home visits had to be curtailed to a certain extent during the year. These visits also enabled the social workers to get at the socio-economic environmental data of the member families. Efforts were made to guide and solve the day-to-day social and health problems confronting the members. The expectant mothers, infants, the pre-school children the sick and the convalescing were also followed up.

Creche—

The creche attached to the Health Centre was of much use and service to the children of the working mothers and the widowers. Children between the ages of 3 months and 5 years were admitted and at the completion of the 6th year they were admitted in Elementary schools or institutions.

Children were received daily in the mornings before 9-30 a.m. and after bath and change to clean clothing they received skimmed milk. After some free play, Nursery education was imparted to the pre-school children by a trained Nursery Teacher. At 12 noon they were served with the midday meal consisting of rice, sambar and vegetables. Once a week they were served with curd bath, an egg and a plantain fruit. After the midday meals they rested and at 3 p.m. after a wash each of them was given a slice of bread and cow's milk. Till 5 p.m. they were allowed to have free play. After 5 p.m. their parents took them away to their respective homes.

Report of the year—

No. on rolls on 1-1-1960	...	62
No. admitted during the year .	...	39
No. removed during the year	...	37
No. on rolls on 31-12-1960	...	64
Average daily attendance	...	52

13 children were admitted in elementary schools.

Health Check-up :

Once a month all the children were given a health check-up, their heights and weights were recorded, and steps were taken to treat diseases and defects noted. 592 general, 45 eye, 43 dental and 42 E.N.T. check-ups were done.

Nutritional, respiratory, dysenteries and diarrhoeas, skin infections, and helminthic infestations were the diseases frequently met with. During the year there was a wave of chicken-pox which affected 24 children. 9 children had attacks of measles. There was one case of primary complex which was sent to the General Hospital for treatment. Among the nutritional defects, Vitamin A, D. deficiency was the most predominent. Among the Helminthic infections, round worm infection was found in 44 children.

Laboratory Investigations :—

I. *Blood examination*	Total ...	60
Findings—		
Low H.B. %	...	19
Low R. B. C. count	...	10
High Lymphocyts	...	3
High W. B. C.	...	25
High Eosinophis	...	41
II. *Motion examination*—		
Findings—		
Round-worm ova	...	44
Giardiasis lamblia	...	9
Entamoeba Histolytica	...	5
Pus cells and R. B. C.	...	4

Immunizations—

1. *Vaccinations done against small pox*—			
(*a*) Primary	...	3	
(*b*) Secondary	...	33	
2. *T. A. B.*	...	44	
3. *Triple Antigen*—			
(*a*) Booster dose	...	8	
(*b*) Completed the course of 3 injections	...	14	New admissions only.
(*c*) Course incomplete	...	8	

All the other children received the antigen in the previous year.

4. *Manteaux*	... Total number tested	...	18
Positive		...	3
Negative		...	15

All the 15 cases received B. C. G.

Round-worm treatment was given to 36 children. Five children were treated for Entamoeba Histolytica.

Maternity Section—

Thirty-two members received ante-natal care at the centre's maternity home and 21 of them delivered normal babies. Mothers and infants received post-natal care. One lady, F.R. No. 125, Baby, had a caesarian operation at Rainy Hospital. F.R. No. 266 gave birth to twins.

Curative Health Service—

Minor ailments were treated at the centre's dispensary which was kept open both in the mornings and afternoons on all working days. Major ailments were referred to the Government Hospitals and doctors and social workers followed the patients both at the hospital and at home while convalescing.

General—

All festive occasions were suitably celebrated. More Milk Day was celebrated on the 13th April, 1960, when more than 2,000 children were given a glass of milk each. The Worshipful Mayor Sri Abdul Khader presided over the function. During Deepavali 20 children took part in a treat sponsored by the All-India Women's Conference and another 10 children were the guests of His Excellency the Governor of Madras at Raj Bhavan, Guindy. On 2nd February 1960, a fire broke out at Varadarajapuram, near Langs Garden. The members took part in helping the victims and rendering social service and the doctors rendered first aid. Milk was also distributed to the victims.

Under the joint auspices of the Corporation of Madras and the Madras branch of the Indian Council of Child Welfare, Baby-shows were arranged in all the 43 Corparation Maternity and Child Welfare Centres. Nearly 600 infants took part in the competition. The semi-finals and final competitions were held at Ashok Vihar. On 9–3–1960 the final baby-show competition was held when the Hon'ble Health Minister Sri Manickavelu Naicker presided over the function and Mrs. Mehdi, the Governor's wife distributed the prizes. On this occation, the Director of Medical Services praised the work of Ashok Vihar.

The 8th Mayor's Cup Football Tournament was, this year, extended to the boys studying in the Corporation Boys' Higher Elementary Schools. 70 teams competed from 52 schools. Madhavaram Higher Elementary School team were the winners and the Corporation Higher Elementary School, Arcot Road, Kodambakkam, were the runners-up. The trophies were presented to the teams by Dr. U. Krishn Rao, Hon. Speaker, the Madras Legislative Assembly, on the 12 Anniversary Day of Ashok Vihar.

F.R. No. 25, Daivasigamani was admitted in the Chengalvaraya Naicken Institute Orpanage.

F.R No. 222, Gabriel, has secured a job in the Port Trust.

F.R. No. 232, Ramalingam; son of a shoe-maker joined the P.U.C.

Navarathri week was celebrated with exhibition of dolls and handicrafts by the members and the evenings the children took part in music and dancing

The Republic Day and the Independence Day were celebrated with the hoisting of the National Flag and distribution of sweet to children.

Marriages—

Four members got married during the year.

Deaths—

There were 12 deaths during the year :

Under 1 year	Nil
Between 1 & 12 years	8
Adults	4

Causes of Death—

Children—

Severe diarrhoea	3
Deficiency diseases	2
Respiratory infection	2
Laryngeal Stridor	1

Adults—

Heart failure	2
Malignant disease	1
Small-pox	1

Milk Distribution—

The following persons received skimmed milk daily for varying periods during the year :—

Infants	53
Children under 6 years	57
Children under 12 years	61
Expectant mothers	17
Nursing mothers	12
Sick and the convalescing	27

A total quantity of 3,449 lbs. milk powder was used for distribution of milk to the above persons.

12th Anniversary Celebrations—

The 12th Anniversary of Ashok Vihar was celebrated on 4–7–1960 when Dr. U. Krishna Rao, Speaker, Madras Legislative Assembly presided over the function.

The open air stage was gaily decorated by the members. The Worshipful Mayor Sri Abdul Khader welcomed the President. The President after distributing the trophies of the Mayor's Cup Foot-ball Tournament to the winners and runners-up and certificates of merits to the members, spoke in glowing terms about the work of the Health Centre. The function terminated after a variety entertainment was given by the members of Ashok Vihar.

On 5th July, 1960, under the able leadership of Sri Ramalingam, the Kalaivani Dramatic Association, Choolai, staged " Panchaliyin Sabatham."

Sri V. Munuswamy, the then Chairman of the Standing Committee (Taxation and Finance), presided over the function and Sri Devarajan, the Deputy Mayor, spoke.

On 6th July, 1960 Sri G. K. Doraivelu staged a drama " Parimala Thevan " when Dr. P. Srinivasan, leader of the Congress Party, presided and Sri Kabala Murthy, Hon. Councillor of the 65th division spoke.

On 7th July, 1960 at 5 p.m. there was a baby show competition. More than 60 babies competed. Sri G. Kuchelar, the then Chairman, Health Committee, presided and distributed the prizes. At 6 p.m. Sri Raj Malar staged " Thennaga Dheeran " when Sri N. Jeevarathanam, the then leader of the D.M.K. Party presided.

The members brought out a beautiful souvenir at their own expense on the occasion of the 12th Anniversary Celebrations.

Service to the Local Public—

(*a*) *Dispensary Service.*—On all working days the dispensary was kept open 3 hours in the mornings and 2 hours in the evenings for the benefit of the sick people among the local public. On holidays the dispensary worked in the mornings only. 38,883 prescriptions were dispensed from the out-patient department of this Health Centre, 10,971 from the maternity home and 6,185 from Peripheral Pediatric Clinic for a total number of 56,039 patients.

(*b*) The peripheral wing of the Pediatrics Department of the General Hospital attached to Ashok Vihar continued to do one more year of positive health work. A total number of 6,185 children were examined. 864 laboratory investigations were done, 49 nutritional classes were held and 649 parents were benefited. 495 homes were visited to follow up sick children treated at the Centre. The common ailments noted were, (1) Deficiency diseases in 2,000 cases, (2) Respiratory diseases 2,885, (3) Primary complex (T.B.) 500 and (4) Worms 500.

(*c*) *Maternity Home*—

No. of ante-natal examinations done at Ashok Vihar ...	773
No. of ante-natal examinations done at other centres ...	220
No. of deliveries conducted at Ashok Vihar ...	727
No. of deliveries conducted at other hospitals ...	31
No. of deliveries conducted at home by centre's midwives ...	73
No. of deliveries taken over after attention by untrained midwives:	5

The most predominant diseases noted during the ante-natal examination were, (1) Vit. B. Deficiency, (2) Nutritional Anaemia, (3) Dyspepsia, (4) Eclamptic Toxaemia and (5) Cardiac diseases.

Complications of deliveries—

Breach presentation ...	2
Twins ...	4
Still births ...	10
Macerated ...	3
Prematurity ...	7

Accidental haemorhage ...	4
Abnormal present ...	11
Retained placenta ...	2
Post ...	1
Disproportion ...	1
Delayed 2nd stage ...	8
Perineal Lacerations ...	39
Puerperal Sepsis ...	1
Pyrexia ...	27
Puerperal Toxaemia ...	5

Family Planning Clinic—

Total No. of new cases contacted ...	2,375
No. who received advice only ...	2,106
No. of Puerperal sterilizations done ...	14
No. of Vasectomy done ...	11
No. of persons who received contracepties ...	244 { 223 Foam tablets. 20 Pre-ceptine jelly. 1 Diaphram and jelly.
No. of old cases visited ...	565

Home Visits—

Total No. of home visits ...	4,087
Total No. of women contacted ...	3,719
Total No. of cases following the methods regularly till December, 1960 ...	247
Mothers who became pregnant ...	18
All the 18 mothers who became pregnant were using foam tablets irregularly ...	...

III. *Service to Personnel in the Medical, Nursing and Social Field—*

Students of the department of Social and Preventive Medicine of the Madras Medical College were allotted Ashok Vihar families to study their socio-economic and health conditions.

Training was given to internees posted from the Government College of Integrated Medicine and Stanley Medical College.

A batch of 3 junior students and 2 senior students from the Madras School of Social Work were given practical training both at the Centre and in the slums.

One student of Social Studies from Stella Maris College was given complete instruction on the working of Ashok Vihar.

For a period of one month Health Visitors from the Government Health School were taught introduction to Urban Health services and were taken to the slums for field work.

Lectures on ' Positive Health ' were given to six new batches of the Community Project Health Service Personnel who underwent training in the Orientation Training Centre, Poonamallee. Another batch of 6th form girls from Kalyanam Girls' High School, Chintadripet, were taught and trained in

Mother craft. Personnel from the Nutritional Research Centre, Hyderabad (I. C. M. R.) were given the necessary aid and guidance to carry out their work on standard heights, weights and measurements, among infants and children.

Other who were benifited by their visits—

1. Students of Madras Medical, Stanley Government College of Integrated Medicine and Madura Medical College.
2. B.S.Sc. Students from the Madras Medical College.
3. Students of Nursing from Madras, Vellore and Trivandrum.
4. Students of Social Work from the Madras School of Social Work, Stella Maris College, St. Joseph's College, Tiruchirapalli, Mangalore and Social Education Trainees from Perianaickenpalayam.
5. B.T. Students from the Teachers' College and from Meston Training College.
6. Nursery School Teacher Trainees, Arundale School, Adyar.

Gifts, Grants and Donations—

1. The State Government was pleased to sanction a grant of Rs. 10,000 for the year.
2. Out of the interest accrued on the donation of Rs. 1,000 made by Sow. Neelambal Sisu Samrakshana Ksheera Dharma Endowment milk was supplied to the creche children.
3. Padma Sri Srimathi M. C. Jadhav, Hon. Secretary, Guild of Service (Central) was gracious enough to send 1 barrel and 50 bags of milk powder.
4. Srimathi Kandaswamy of Vepery sent her gifts to the creche children, during this year also. On the 24th December, 1960, she distributed buns and bananas to children, and to six deserving boys she presented each a pair of half pants and shirts.
5. The U.S.I.S., B.I.S. and British Council continued to supply us periodically films and back numbers of periodicals.

The authorities of the Corporation of Madras and the staff of Ashok Vihar are grateful to the above organisations and individuals for their kind munificent gifts.

The following distinguished Persons visited the Ashok Vihar during the year and appreciated the work carried on in the centre :

January 28, 1960 ...	Prof. J. B. Lightmen, Consultant, Social Work Education, U.S.T.C.M. India Project.
April 4, 1960 ...	Groendolen E. Chesters, UNICEF, New York. F. K. Hussein, UNICEF, New Delhi.
May 18th, 1960 ...	G. N. Shastry, I.A.S., Commissioner, Corporation of Hyderabad.
May 25th, 1960 ...	Worshipful Mayor and Hon. Councillors of the Bangalore Corporation along with the Commissioner of the Corporation.
September 12th, 1960 ...	Members of the School Health Committee with the Chairman, Srimathi Renuka Ray, M.P.

CHILD WELFARE SCHEME.

During the year 1960, the Periamet Child Welfare Centre was closed down besides Peddunaickenpet C.W.C. which remained closed temporarily. A new Centre was opened in Hospital Maidan, Choolai. Consequent on the shifting of the Muthialpet Child Welfare Centre, the ward attached to it had to be closed. At the close of the year, there were 44 Child Welfare Centres, 19 of which had maternity wards with a total bed strength of 272. While the maternal mortality rate was maintained at almost the same level as attained during the previous year, there was marked reduction in the infantile mortality rate—the rates were 0.89 and 95.10 per mille during 1960 against 0.64 and 99.40 per mille of the previous year.

Staff.—Dr. V. S. Krishnaswamy, M.B.B.S., D.M.C.W. (Cal.), C.P.H. (London), took charge of the office of Lady Superintendent, Child Welfare Scheme from Captain. Kumari C. N. Rukmani, retired with effect from 19–1–1960. There were 31 Assistant Surgeons, 38 Health Visitors, 10 General trained Nurses, 263 Midwives and 30 Compounders.

Pre-natal Clinics were conducted in all the Centres regularly twice a week. At these clinics, the expectant mothers were given thorough medical check-up on their first visit and thereafter examined once a week or a fortnight as the cases required. Expectant mothers numbering 37,365 who attended the clinics were given medical advice and treatment by the Assistant Surgeons as against 39,893 for the previous year. These cases derived immense benefit from the advice and treatment given.

Serological Examination of blood of ante-natal cases was extended to the remaining four warded centres during the year with the result that it came to be conducted in all the 19 of the warded centres. Treatment of positive cases was done free of cost. A statement is furnished below :—

Total No. of blood samples examined.	No. of positive cases.	No. of positive cases that took full course of treatment.	No. of positive cases that took partial treatment.	No. of positive cases that did not turn up in spite of persuasion.
17,207	714	258	134	322

The percentage of positive cases was reduced from 4.65 of the previous year to 4.15 during the current year.

Maternity Service.—Out of the total number of 72,610 City births, 29,087 labour cases came under the care and observation of the Scheme during the year as against 29,709 of the previous year. The births conducted in the wards during the year were 15,882 against 16,502 of the previous year. The number of home visits made by midwives was 2,08,529, by Health Visitors 1,28,543 and by Assistant Surgeons 22,342. Among the births that came under the care of the Child Welfare Scheme there were 248 twins and 607 still births.

Ambulance Service.—Four ambulance vans were in service. During the year under report, 1,413 cases requiring hospitalisation were transported in these vans to the various maternity hospitals in the City.

Vaccination of new born babies which was started at Choolai Maternity Home on 19–10–1959, was continued during the year 1960—1,614 neo-natal vaccinations were done during the year, (788 male babies and 826 female babies.)

Immunisation with triple antigen which was started at Ashok Vihar on 12–11–1959 was continued during the year. As the results were encouraging it was started in Saidapet Maternity Home also from September 1960. The particulars are given hereunder :—

	No. to whom I injection was given.	*No. to whom II injection was given.*	*No. to whom III injection was given.*
Ashok Vihar ...	532	309	165
S.M.H. ...	200	67	29

Out-Patient Clinics.—The Assistant Surgeons conducted out-patient clinics in all the Centres. At these clinics infants, pre-school children, expectant mothers and nursing mothers were examined and treated for minor ailments—52,910 infants, 12,713 pre-school children, 37,360 expectant mothers and 65,404 nursing mothers represent the new cases that were treated and advised. The total attendance was 4,62,094 inclusive of 2,93,707 old cases.

Free Milk Distribution.—Cow's milk was continued to be supplied to ill-nourished infants free of cost. The total number of such infants was 3,307. Skimmed milk powder donated by the UNICEF was reconstituted and supplied free to deserving infants, toddlers, expectant mothers and nursing mothers in all the Child Welfare Centres.

Maternal Mortality.—Out of 29,087 labour cases that came under the care and observation of the Child Welfare Scheme there were 26 cases of mortality as against 19 cases of mortality among 29,701 cases of labour conducted during the year 1959. Particulars are given below :—

Institution.	*Death during*	
	1959	1960
Child Welfare Scheme ...	2	2
Hospitals ...	16	23
Private Doctors ...	...	1
Vaidians ...	1	...
Total ...	19	26

The rate of maternal mortality worked out to 0.89 per mille against 0.64 per mille in the previous year.

Infantile Mortality.—The number of still births was reduced to 607 during 1960 from 644 for the year 1959 while the number of infants born for these years were 29,687 and 30,671 respectively. The number of infants kept under observation during the first year of life in 1960 was 29,065 against 29,972 of the previous year. The mortality among live births was 2,764 against 2,979 of the previous year. The whereabouts of 3,280 children could not be traced. The infant mortality rate worked out to 95.10 per mille for the year 1960 against 99.40 per mille for the year 1959.

Maintenance of Creches.—For the benefit of working class parents with a combined income of less than Rs. 50 three creches were maintained. The working mothers left their children at the creches in the morning and took them back on their return from work. During their stay at the creches the children were given bath, fresh and clean clothing and nourishing food. They attend nursery classes where action songs, story telling and prayer formed part of the programme. They play indoor and outdoor games. Their minor ailments were attended to by the Assistant Surgeon. The average daily attendance of the children at Royapuram, Broadway and Chetput creches was 19, 18 and 19 respectively.

Film Shows.—With a view to educate mothers in matters relating to mother-craft, child care, general hygiene and prevention of disease, films supplied free of cost by USIS and other agencies were shown at key centre where audience from the neighbourhood collected. During the year, 1960, 10 shows were arranged and the total audience was 1,280.

Baby Show.—With a view to encourage bringing up of healthy babies, the annual baby show was conducted during the year in co-operation with the Indian Council for Child Welfare.

The competition was open only to children of low income group. Nearly 500 children competed from all the Child Welfare Centres. The competing children were divided into 3 age groups, viz., 1 to 4 months, 5 to 8 months and 9 to 12 months. First, Second and Third prizes were awarded to three winning children in each age groups. Prize distribution was done by Thirumathi Bishnuram Mehdi at a function held on 9-3-1960.

The participants in this baby show exhibited a definite improvement over those of the previous years and thus fulfilled the purpose for which the show was organised.

FAMILY PLANNING SCHEME.

All the Family Planning activities of the Madras Corporation were completely brought under the Family Planning Scheme, reorganised and financed by the Government of Madras for all extra expenditure involved in implementing the Scheme. During the year 1959, Government passed orders on intensive scheme for the popularisation of the surgical methods for both Government and Non-Government employees according to which all fathers and mothers who are having three children and above are offered a compensatory allowance of Rs. 30 if either undergo sterilisation.

All the 32 Father Information Centres were functioning during the year under review. For want of trained tutor, only one centre could not work for some months. The canvassing in the Father Information Centres was not as vigorous and as often as in the previous years. This was attributed to the fact that most fathers know what for they were being persuaded to go to a Father Information Centre or even if they did not know, they were sure that there would be mere persuasion and no penalty if they did not comply with the request of the canvassers. A better course would be to make the Father Information Centres work full time with full time workers visiting the homes of fathers just as the staff of Mother Information Centres do.

Dr. N. Natarajan, continued to work as Medical Officer, Family Planning Scheme, during the whole of 1960.

The following table gives the number of fathers instructed and vasectomy done through Father Information Centres in 1960 :—

I Quarter.		*II Quarter.*		*III Quarter.*		*IV Quarter.*	
F.	V.	F.	V.	F.	V.	F.	V.
3,828	35	4,129	71	3,580	94	3,529	86

Total Fathers.	*Total Vasectomy.*
F.	V.
15,066	286

F—Indicates Fathers. V—Indicates Vasectomy.

All the 43 Mother Information Centres continued to function during the year under the supervision of Dr. (Mrs.) V. S. Krishnaswamy, Lady Superintendent, Child Welfare Scheme.

The following table gives the number of mothers instructed and Salpingectomy done through the agency of the Mother Information Centres :—

Name of the Clinics.	*No. of Mothers instructed.*	*Salpingectomy.*	*Vasectomy.*
Pudupakkam F.P. Clinic ...	6,749	139	21
Choolai F.P. Clinic ...	7,204	131	9
Vyasarpadi F.P. Clinic ...	8,748	126	14
George Town F.P. Clinic ...	11,807	142	32
Jagannathapuram F.P. Clinic.	7,249	96	42
Saidapet F.P. Clinic ...	7,831	131	21
Total ...	49,588	765	139

FAMILY PLANNING.

I. *Fathers' Information Centres in the City—*

S. No. *Address.*

1. 369, Pycrofts Road, Pudupakkam.
2. 25, Pycrofts Road, Triplicane.
3. 25, Hamilton Bridge Road, Krishnampet.
4. 55, Royapettah High Road.
5. 63, Kutcheri Road, Mylapore.
6. 65, Poonamallee High Road (near the Spur Tank).
7. Shenoy Nagar.
8. 3/61, Arunachala Naicken Street, Chintadripet.
9. 34, Poosala Gengu Reddy Street, Egmore.
10. 15, Noor Veeraswamy Iyer Street, Nungambakkam.
11. 107, Arcot Road, Kodambakkam.
12. 1, Theagaraya Road, Theagarayanagar,
13. 3, Sivagnanam Road, Theagarayanagar.
14. 87, Suryanarayana Chetty Street, Royapuram.
15. 86, Thiruvottiyur High Road, Washermanpet.
16. 244, Mint Street.
17. 47, Linghi Chetty Street.
18. 161, Govindappa Naicken Street.
19. 17, Basin Water Works Road.
20. Rottlers Street, Vepery.
21. 55, Pulianthope High Road.
22. 6, Gangadareeswarar Koil Street, Purasawalkam.
23. 22, Gantz Road.
24. 55, Madavaram High Road, Perambur.
25. 23, Paper Mills Road, Sembium.
26. 127, Konnur High Road, Ayanavaram.
27. Old Arbitrator's Office, opposite Zoo
28. 23, Kolandai Street, Park Town.
29. 2/64, Mount Road, Teynampet.
30. 1, Karneeswarar Koil Street, Saidapet.
31. 3/25, Velachery Road, Guindy
32. 13, Greenways Road, Adayar

II. *Mothers' Information Centres in the City:—*

S. No. *Address.*

1. 84, Lloyds Road, Royapettah.
2. 8, Nyniappa Maistry Street, Pudupakkam, Triplicane.
3. 32, Brodies Road, Mandavalli.
4. 43, Market Street, Mylapore.
5. 24/25, Surappa Mudali Street, Zam Bazaar.

FAMILY PLANNING –contd.

S. No.	*Address.*
6.	Dr. Besant Road, Mirsahibpet.
7.	9, Halls Road, Kilpauk.
8.	1/6, Arunachala Naicken Street, Chintadripet.
9.	37, Lloyds Garden, Pudupet.
10.	27, Jagannathapuram 2nd Street, Chetput.
11.	15, Noor Veeraswami Iyer Street, Nungambakkam.
12.	68, Arcot Road, Kodambakkam.
13.	3, Sivagnanam Road, Theagarayanagar.
14.	385, Thiruvottiyur High Road, Tondiarpet.
15.	Corporation Model Lines, Palmyrakuppam.
16.	23, Suryanarayana Chetty Street, Royapuram.
17.	21/22, Kappal Polu Chetty Street, Royapuram.
18.	36, Thiruvottiyur High Road, Washermanpet.
19.	18, Jinda Sahib Street, Peddunaickenpet.
20.	44, Amman Koil Street, George Town.
21.	1/2, Abbu Maistry Street, George Town.
22.	175, Thambu Chetty Street, George Town.
23.	Trevelyan Basin Street, Sowcarpet.
24.	Vijaya Vigneswarar Koil Street, Choolai.
25.	1/33, Gantz Road, Pulianthope.
26.	51, Perambur High Road, Perambur.
27.	14, Subbaraya Chetty Street, Nammalwarpet.
28.	8, Chellappa Mudali Street, Kosapet.
29.	Bharathi Road, Perambur.
30.	Paper Mills Road, Sembium.
31.	United India Colony, Ayanavaram.
32.	109, Purasawalkam High Road, Purasawalkam.
33.	Ashok Vihar.
34.	4/8, Naval Hospital Road, Periamet.
35.	Malliah Market, Othavadai Road.
36.	2/3, Periara Street, Park Town.
37.	104, Mount Road, Corporation Dispensary.
38.	2, Jeenis Road, Saidapet.
39	24, Danapal Chetty Street, Saidapet.
40.	44, Vasantha Press Road, Arunachalapuram, Adyar.
41.	46, Azeez Mulk 3rd Street, Thousand Lights.
42.	16, Dr. Sadasivam Road, Theagarayanagar.
43.	6, Perumal Koil Street, Guindy.

SPECIAL HOME.

The year began with a strength of 242 inmates on 1–1–1960 and ended with a strength of 274 inmates on 31–12–1960. The various particulars are furnished below in Table I.

TABLE I.

Particulars.	Male inmates.	Female inmates.	Total.	Remarks.
Strength on 1–1–1960 ...	163	79	242	
Admissions during the year ...	418	85	503	
Discharges during the year ...	102	57	159	
Releases during the year ...	139	29	168	
Deaths during the year ...	66	17	83	
Escapes during the year ...	14	...	14	
Admissions to City hospitals ...	99	31	130	
Deaths at Hospitals ...	6	3	9	
Escapes ...	8	...	8	
Returns from Hospitals ...	85	28	113	
Strength on 31–12–1960 ...	227	47	274	

Committals to the Home during the year according to ages are given below :—

Age groups.		*No. of admissions.*
10 to 20 years	...	38
21 to 30 years	...	155
31 to 40 years	...	106
41 to 50 years	...	87
51 to 60 years	...	74
61 to 70 years	...	29
71 to 80 years	...	10
81 to 90 years	...	3
91 to 100 years	...	1
Total	...	503

Admissions to City hospitals for treatment :—

Infectious Diseases Hospital	...	14
Government General Hospital	...	21
Government Stanley Hospital	...	35
Government Royapettah Hospital	...	21
Kasturba Gandhi Hospital	...	8
Total	...	99

There were more number of admissions during the year than in the previous year. The number of cases referred to the City hospitals for special treatment is much more and the number of admissions was 99 only. Practically all the cases referred to the City hospitals were leprosy cases. The reason for referring them for treatment outside is that the disease was present in them for a number of years and the inmates even at the time of admission were badly infected. The concerned authorities in some of the City hospitals were not willing to admit these patients since they were found stealing and escaping with the Government linen issued to them.

Discharges, releases and escapes—

Persons discharged were less in number during the year than in the previous year.

The number released was higher since more number of non-infective cases were put up for release and they satisfied the conditions for release.

The number of escapes was 14. Since the warders were found negligent in their duties, responsibility was fixed on each warder and they were severely dealt with.

Deaths.—There was an increase under this head and it was due to the following reasons :—

(1) The number of inmates committed to the Home was higher than in the previous year.

(2) The conditions of the inmates was even bad at the time of admission and there was poor response to treatment. Most of the inmates transferred from Government Care Camp were chronically infected with bowel disorders and they died in spite of treatment.

The particulars of deaths are given below :—

			Males.	*Females.*
1.	Chronic Enteritis	...	32	6
2.	Heart Failure	...	12	3
3.	Septicaemia	...	18	6
4.	Tuberculosis	...	3	...
5.	Old age and debility	...	7	2
6.	Gastro-enteritis	...	6	...

Practically all the deaths were among the leprosy cases.

Visitors—

The following official visitors inspected the Home on the dates mentioned against them :—

1.	Asst. Director of Public Health	...	20-6-1960
2.	Dy. Commissioner of Police (Crimes)	...	25-6-1960
3.	Chief Presidency Magistrate	...	21-9-1960
4.	Inspector General of Prisons	...	26-9-1960

Occupational Therapy—

Though there are a few occupations for the inmates to be engaged in, there has been a general disinclination on their part to do any work on the plea that they were not paid any remuneration. They did not co-operate to the extent of producing bandage in the weaving section which is used only to dress their ulcers.

Weaving Section—

Though there are five looms, only 2 were in use due to lack of hands to work them. Figures of production in the weaving section are given below :—

Bandage cloth.		*Cost of raw materials.*	*Cost of finished products.*
		Rs. nP.	Rs. nP.
1,200 yards	...	207 00	440 00

These figures could have been doubled or trebled if the inmates had co-operated in weaving the bandage cloth.

Gardening—

Vegetables weighing 943 lbs. were grown in the garden and these replaced the supplies by the contractors. Their value at contract rate of 0.08 nP. worked out to Rs. 75-44 nP.

Staff—

The following staff worked during the year 1960 :—

1.	Superintendent-cum-Medical Officer	...	1 No.
2.	Nurses	...	3 Nos:
3.	Clerk	...	1 No.
4.	Compounder	...	1 „
5.	I Grade Warder	...	1 „
6.	II Grade Warders	...	12 Nos.
7.	Male Ward Attendants	...	4 „
8.	Female Ward Attendants	...	4 „
9.	Peons	...	3 „
10.	Cooks	...	4 „
11.	Male Thoties	...	7 „
12.	Female Thotties	...	5 „
13.	Dhobies	...	3 „
14.	Barbers	...	2 „
15.	Gardener	...	1 No.

General—

A partition wall has been constructed from the office block to the kitchen block to separate the leper patients from the healthy inmates.

Wire-mesh has been provided for the kitchen windows.

Jubbas, blouses, pillows and red dhoties have been issued to the inmates.

Condition of the inmates on admission :—

Conditions.	*Males.*	*Females.*	*Total.*
Admissions during the year ...	418	85	503
1. Healthy persons ...	129	37	166
2. Lepers ...	289	48	337
a. Neural ...	181	34	215
b. Infective ...	108	14	122
Conditions found in leprosy cases—			
1. Skin diseases ...	90	6	96
2. Blindness ...	6	...	6
3. Tropic ulcers ...	80	5	85
4. Deafness ...	2	...	2
5. Paralysis ...	15	4	19
6. Tuberculosis ...	6	...	6
7. Cardio Vascular complications ...	15	...	15
8. Respiratory complications ...	6	1	7
Conditions found in healthy cases—			
1. Mental ...	6	9	15
2. Cardio Vascular conditions ...	5	2	7
3. Respiratory ...	2	2	4
4. Blindness ...	4	1	5
5. Paralysis ...	...	...	...

CATTLE YARDS AND VETERINARY DISPENSARIES.

Details of licensing of private cattle yards in the City. :—

1.	No. of renewal applications received ...	1,475
2.	No. of applications recommended	973
3.	No. refused	485
4.	No. pending	17
5.	No. of new applications received	92
6.	No. of new applications recommended	19
7.	No. refused	73
8.	No. pending	Nil.
9.	No. of unlicensed Cattle Yards	557
10.	No. of notices issued in respect of Item 7 ...	559
11.	No. prosecuted for non-compiance	571
12.	No. prosecuted for more than once	138
13.	No. improved and found fit for licence as a result of action taken	86
14.	No. evacuated in pursuance of action taken ...	114

PUBLIC CATTLE YARDS.

S. No.	*Dn. No.*	*Location.*		*Accommodation for No. of animals.*
1	25	41, Basin Bridge Road ...	...	215
2	47	75, Venkatadri Naicken Street ...	...	200
3	79	43, Singanna Chetty Street ...	...	87
4	74	Arimuthu Maistry Street ...	...	40
		Total	...	542

VETERINARY DISPENSARIES.

Veterinary Dispensaries are run by the Corporation of Madras. These institutions continued to cater to the needs of public as in previous year. They are located in the Madras City as stated below :—

1. Veterinary Dispensary, ' B ' Cattle Depot at Basin Bridge Road.
2. Veterinary Dispensary, ' D ' Cattle Depot, Pudupet.
3. Veterinary Dispensary, ' F ' Cattle Depot, Mylapore.
4. Veterinary Dispensary, ' G ' Cattle Depot, Perambur.
5. Veterinary Dispensary, ' H ' Cattle Depot, Thirumalai Pillai Road, Nungambakkam.

Name of Veterinary Dispensary.	Bovines.			Equines.			Others.			Grand Total.
	New.	Old.	Total.	New	Old	Total.	New.	Old.	Total.	
B Depot.	2,413	2,036	4,449	10	10	20	2,040	1,024	3,064	7,533
D Depot.	1,905	3,876	5,781	2	4	6	1,837	3,572	5,409	11,296
F Depot.	2,406	3,949	6,355	9	10	19	1,486	3,467	4,953	11,327
G Depot.	663	2,197	2,860	...	...	...	833	2,338	3,171	6,031
H Depot	1,488	4,597	6,085	4	17	21	1,560	4,476	6,036	12,142
Total ...	8,875	16,655	25,530	25	41	66	7,756	14,877	22,633	48,329

Specimens sent to Madras Veterinary College	14
Artificial inseminations done at B, F & H Depots —	
Cows	1,576
She Buffaloes	539
Total ...	2,115
No. of Castrations done	36
Amount collected during the year 1960	Rs. 825-75

ZOOLOGICAL GARDENS.

The Madras Zoo which is 106 years old maintained its popularity during the year as indicated by the visit of about five lakhs of people. Auctioning of the right of zoo gate collection for 1960-61 fetched about four thousand rupees more than the previous year. The Madras Government as usual granted Rs. 10,000 towards the admission of elementary school children at a reduced rate of six naye Paise per head.

Distinguished Visitors.—Sri Naresh Chanan Singh, Ruler of Sarangarh and Minister of Tribal Welfare, Madhya Pradesh visited the Zoo on 30th May 1960 and was very much impressed by the well kept condition of the animals and cleanliness maintained in the Zoo. The Commissioner of Bangalore Corporation along with the W. Mayor and other Councillors of that City Corporation thoroughly enjoyed their visit to this Zoo and expressed the hope that the baby Hippo will be given to them, to make a start of a Zoo at Bangalore. The Accountant-General of Madras spent an enjoyable and interesting evening at the Zoo on 15th April 1960. He was pleased by the personal interest taken by the Superintendent and his staff in the health of the animals. Sri N. Ranganathan, Secretary, Indian Board for Wild Life who saw our animals here hoped that the plan to shift the Zoo to Guindy would materialise soon.

Thiru T. S. Ramaswamy, M.A., M.Sc., continued to be the Superintendent of the Zoological Gardens during this period.

Livestock.—The total number of animals in the Zoo was 582 on 1st January 1960. The additions to this by way of gifts, births and hatches, purchase and capture were 9, 143, 35 & 3 respectively, totalling to 190 animals, while the depletion of the livestock due to sale, death and being gifted away were 46, 108 and 16 respectively, i.e., 170 animals on the whole. The total number of animals on 31st December 1960 was 601 as detailed in the statement below, which showed an increase over the livestock on 1st January 1960.

Addition—(*a*) *Free gifts received.*—A valuable African lion was given as free gift by Sri F. P. Gaekwad, Maharaja of Baroda, while Sri Lakshmanan Chettiar of Krishna Pictures, Mambalam presented two tamed leopards during the period. Miss Urmila Rao of Poona Virus Research Institute sent her tamed Hyaena to Madras Zoo which showed that the Madras Zoo was remembered even outside the State. There were other minor gifts also.

(*b*) *Births.*—There were 143 births during this period, the most outstanding being the birth of a baby Hippo on 27th June 1960. It created such a sensation in the City that it was photographed by the press and filmed for the Indian News Parade also. Hundreds of people daily visited the Zoo to see this young one. One Zebra young was also born this year. The South American Lama also gave birth to a baby which grew up rapidly. Other births were mainly among the birds.

(*c*) *Purchase.*—Thanks to the timely exgratia grant of Rupees one lakh to the Madras Zoo, by the State Government, [it was possible to purchase exotic fauna for enriching our Zoo collection. The purchases included African lions, white Swans, Black swans, beautifully coloured Pheasants, macaw parrots, white peafowls, etc.

(*d*) *Capture.*—The Zoo staff took keen interest in capturing three grey herons when they alighted in the Zoo area.

(*e*) Nothing was received in exchange.

Reduction—(*a*) *Sold.*—Out of the 46 animals sold, one lonely female tiger was disposed off to the Bombay Zoo as the same was not represented there.

(*b*) *Deaths.*—Out of the 19 deaths among the mammals, the death of the male Chimpanzee " Naresh " was very unfortunate and regretted very much. The post-mortem examination of one gazelle and four spotted deer showed T.B. of the lungs of human type. Action was taken to contact the Principal, Government Veterinary College, Madras, to do T.B. test, among the rest of the spotted deer population. The deaths among the birds were also reported which were largely due to the unusual inclement weather condition extending for about twenty days in the month of November 1960.

Name.	Stock on 1-1-60.	Gift received.	Births and hatches.	Purchases.	Captured	Received on Exchange.	Sold.	Dead.	Gifted away.	Stock on 31-12-60.
Mammals ...	224	7	80	4	...	...	44	19	12	240
Aves ...	334	...	63	31	3	...	2	89	4	338
Reptiles ...	24	2	...	...	...	...	...	1	...	25
Total ...	582	9	143	35	3	...	46	109	16	601

Proper care and attention were paid to the wild animals of our Zoo. Careful and constant efforts were made to improve the health and hygiene of the livestock by the Superintendent, the Veterinary Assistant Surgeon in-charge Dr. C. I. John and Dr. A. Khavi, Veterinary Assistant Surgeon, Government Veterinary College, Madras. ((*The administrative took keen interest in the maintenance of the Zoo and offered constructive ideas from time to time.*)

The income to the Zoo was as follows :—

		Rs.	nP.
1.	Zoo Gate	1,44,050	00
2.	Zoo Cafe	14,100	00
3.	Zoo Boats	8,000	00
4.	Zoo other receipts	3,118	00
	Total income ...	1,69,268	00

LETHAL CHAMBER.

Month. 1960	No. of stray dogs caught and brought to the pound during 1960		No. of dogs destroyed during 1960		No. of dogs released to the onwers during 1960		No. of dogs given to the Medical College for experiments during 1960	
	Dog.	Bitch.	Dog.	Bitch.	Dog.	Bitch.	Dog.	Bitch.
January	1,742	1,819	1,543	1,725	166	64	27	20
February	1,773	1,846	1,520	1,732	181	66	47	25
March	1,843	1,948	1,657	1,865	155	66	32	16
April	1,727	1,819	1,597	1,770	111	49	19	Nil
May	1,746	1,845	1,604	1,784	127	54	21	1
June	1,294	1,359	1,301	1,435	83	38	14	6
July	791	826	595	682	64	22	22	8
August	1,386	1,455	1,217	1,377	135	59	28	12
September	1,544	1,620	1,380	1,553	152	65	19	8
October	2,099	2,176	1,808	2,077	260	85	39	24
November ...	2,159	2,243	1,886	2,139	206	57	34	14
December	2,280	2,374	1,997	2,260	267	112	32	18
Total ...	20,384	21,330	18,105	20,399	1,907	737	334	152

Report.—A Sanitary Inspector is in charge of the routine work of this Institution. Eight skilled men known as dog-catchers, are employed for noosing the stray and unlicensed dogs found in the streets and other public places of the City and they are paid at the rate of 19 nP. for every dog they catch. The average catch for a day is about one hundred and twenty. The unlicensed dogs straying about the streets are caught and removed in a specially made van to the pound attached to the Corporation Lethal Chamber at Basin Road.

All the seized dogs are impounded and they are detailed usually for a period of 72 hours. During this period they are fed, and on the owners, claiming them within three days they are released after recovering a license fee of Rs. 1-25 nP. per dog for the disc besides the detention charge at the rate of 25 nP. per day. All unclaimed dogs are electrocuted on the 4th day one at a time. This is said to be the most human method of destruction. No dog sees its companion being killed.

	Dogs.	*Bitches.*
(*a*) Number of dogs left over on 31-12-1959 ...	80	80
(*b*) Number of dogs caught during 1960 ...	20,384	21,330
(*c*) Total number of dogs	20,464	21,410
(*d*) Number of dogs electrocuted during 1960 ...	18,105	20,399
(*e*) Number of dogs released to the owners ...	1,907	737
(*f*) Number of dogs given to the Medical Colleges for experiments	334	152
(*g*) Balance number of dogs remaining in the Chamber on 31-12-1960	118	122
Total ...	20,464	21,410

There is also a scheme under active consideration by the Corporation for the control of rabies and when it is finalised and sanctioned every dog that is released to its owner will be given an inoculation of anti-rabies vaccine free of charge.

As usual, the method of seizure and electrocution of the stray dogs were explained with demonstration to the students of various Medical Colleges, Public Health Visitors, Nurses, and Sanitary Inspectors who visited the Lethal Chamber during the year under review.

Further, the Corporation has helped various institutions on the outskirts of the City limit such as T.B. Sanatorium at Tambaram in abating the stray dog nuisance by sending our dog catchers for seizing the dogs in their areas, etc., and getting them destroyed on payment of necessary fees.

CORPORATION OF MADRAS

Health Department.

INSTITUTIONS UNDER THE HEALTH DEPARTMENT.

Offices of Registrar of Births, Deaths and Vaccination Depots.

Office Hours—7-30 to 10 a.m. and 3-30 to 5-30 p.m.
except Sundays.

Serial No.	*Divisions served.*	*Location.*
1	1, 2, 3, 7, 8 & 9...	87, Suryanarayana Chetty Street, Royapuram.
2	4, 5, 6, 10, 21, 22 & 23.	545, Thiruvottiyur High Road, Washermenpet
3	11, 12, 16, 17, 24, 25 & 26.	244, Mint Street.
4	13, 14, 15 & 20 ...	47, Linghi Chetty Street.
5	18 & 19 ...	161, Govindappa Naicken Street.
6	27, 28 & 29 ...	17, Basin Water Works Street.
7	31 ...	22, Gantz Road (mornings).
8	32 ...	55, Madavaram High Road, Perambur (evenings).
9	36 & 37, 39 & 40.	Rotler Street, Vepery.
10	33, 34, 35 & 38 ...	55, Pulianthope High Road.
11	41, 42 & 43 ...	23, Paper Mills Raod, Sembium.
12	44 & 45 ...	127, Konnur High Road, Ayanavaram.
13	51 & 91 ...	Shenoy Nagar.
14	52 ...	65, Poonamallee High Road, near Spur Tank.
15	46, 47, 48, 49, 50 & 61.	6, Gangadareswarar Koil Street.
16	62 & 63 ...	Zoo Compound.
17	30 & 64 ...	23, Kolandai Street, Park Town.
18	65, 66 & 70 ...	3/61, Arunachala Naicken Street, Chintadripet.
19	67, 68 & 69 ...	34, Poosala Gengu Reddy Street, Egmore.
20	53, 54, 55 & 56 ...	15, Noor Veeraswamy Iyer Street, Nungambakkam.
21	92 & 96 ...	109, Arcot Road, Kodambakkam.

Serial No.	*Divisions served.*		*Location.*
22	93	...	1, Sir Theagaraya Road, T. Nagar.
23	57 to 60 & 71 to 73.		369, Pycrofts Road, Pudupakkam.
24	74 to 77	...	25, Pycrofts Road, Triplicane.
25	78 to 80	...	25, B.B. Road, Krishnampet.
26	82 to 84	...	Royapettah High Road.
27	85 & 86	...	63, Kutcheri Road, Mylapore.
28	81, 87 & 88	...	2/104, Mount Road, Teynampet.
29	94 & 95	...	3, Sivagnanam Road, T. Nagar.
30	97, 98 & 100	...	1, Karaneeswarar Koil Street, Saidapet.
31	99	...	32/5, Velacheri Road, Guindy.
32	89 & 90	...	13, Greenways Road, Adyar.

Office of Sanitary Inspectors.

1	1 & 2	...	81, Suryanarayana Chetty Street, Kasimode.
2	3 & 4	...	Kalmandapam Road, Rayapuram.
3	5 & 6	...	546, Thiruvottiyur High Road, Washermenpet.
4	7 & 8	...	151, Mannarswamy Koil Street, Royapuram.
5	9 & 10	...	Do.
6	11 & 12	...	5/31, Saint Xavier Street, G.T., Madras.
7	13 & 14	...	42, Marakayar Labbai Street.
8	15 & 16	...	31, St. Xavier Street, G.T., Madras.
9	17 & 18	...	161, Govindappa Naicken Street.
10	19	...	48, Thatha Muthiappan Street.
11	20	...	32, Thambu Chetty Street.
12	21, 22 & 23	...	546, T.H. Road, Madras-21.
13	24 & 25	...	244, Mint Street.
14	26, 27 & 28	...	183, Wall Tax Road.
15	29 & 30	...	96, Wall Tax Road.
16	31 & 32	...	40, Barathy Road, Perambur.
17	33	...	Gantz Road.

Serial No.	Divisions served.		Location
18	34 & 35	...	1-A, Bashiam Reddy 1st Street.
19	36 & 37	...	Kalathiappa Mudali Street, Choolai.
20	38	...	55, Pulianthope High Road.
21	39 & 40	...	Kalathiappa Mudali Street, Choolai.
22	41 & 42	...	23, Paper Mills Road, Sembiam.
23	43 & 45	...	127, Konnur High Road.
24	44 & 46	...	1-B, Bashiam Reddy 1st Street.
25	47 & 48	...	Smith Field Market, Choolai.
26	49 & 50	...	Do.
27	51 & 52	...	Shenoy Nagar Market.
28	53 & 54	...	15-B, Nungambakkam High Road.
29	55 & 56	...	21, Village Road, Nungambakkam.
30	57 & 58	...	369, Pycrofts Road, Amir Mahal.
31	59 & 60	...	Do.
32	61	...	65, Poonamallee High Road (near Napier Park).
33	62 & 63	...	People's Park, Near Zoo.
34	64	...	23, Kolandai Street, Park Town.
35	65 & 66	...	Vedagiri Maistry Street, Chintadripet.
36	67	...	33, Poosala Gengu Reddi Street.
37	68 & 69	...	35, Veerabadrachari Street, Pudupet.
38	70	...	Adikesavalu Street, Narasingapuram.
39	71 & 72	...	1, Balamuthu Street, Madras-2
40	73	...	25, Pycrofts Road.
41	74	...	25, Pycrofts Road, Triplicane.
42	75	...	25, Pycrofts Road.
43	76 & 77	...	22, Chengalvaroya Mudali Street.
44	78	...	25, Barbers Bridge Road, Krishnampet.
45	79 & 80	...	25, Barbers Bridge Road.
46	81 & 82	...	2/104, Mount Road.
47	83 & 84	...	55, Royapettah High Road, Madras-14.

Serial No.	Divisions served.	Location.
48	85 & 86	... 100, Kutchery Road.
49	87 & 88	... 2/104, Mount Road, Madras-18.
50	89 & 90	... 13, Greenways Road, Adyar.
51	91 & 92	... 107, Arcot Road, Kodambakkam.
52	93 & 94	... Theagaraya Road, T. Nagar.
53	95 & 96	... 5 Sivagnanam Street.
54	97 & 98	... 16, Koothada Pillai Koil Street.
55	99	... 32/5, Velachery Road, Guindy.
56	100	... 16, Koothada Pillai Koil Street.

Dispensaries.

Serial No.	Divn. No.	Name of Dispensary.	Location.
1	1 to 3	Royapuram ...	2/87, Suryanarayana Chetty Street.
2	3 & 8	Palmyra Kuppam ...	Kalmandapam Road.
3	7	Royapuram Siddha ...	109, Adam Sahib Street.
4	4	Sanjeevarayanpet ...	21/22, Kappal Polu Chetty Street.
5	11	Seven Wells ...	1/50, Saint Xavier Street.
6	14	Harbour ...	6/7, Adam Street.
7	15	Muthialpet ...	Geils Street.
8	19	Mofuskhan Garden ...	55, Thatha Muthiappan Street.
9	20	Mannady ...	47, Linghi Chetty Street.
10	23	Washermenpet ...	85, Thiruvottiyur High Road.
11	25	Mint ...	244, Mint Street.
11B	25	B. Bridge ...	51, Basin Bridge Road.
12	26	Trevelyan Basin ...	17, Basin Water Works Street.
13	31	Perambur ...	55, Madavaram High Road.
14	32	Vyasarpady ...	Hope Lodge, Gantz Road.
15	33	Pulianthope Unani ...	13, Pulianthope High Road.
16	34	Otteri ...	Perambur Barracks.
17	35	Otteri Siddha ...	1-B, Bashiam Reddy Street.

Serial No.	*Divn. No.*	*Name of Dispensary.*		*Location.*
18	39	Choolai Siddha	...	Alathur Subramania Achari Street.
19	40	Baliah Naidu	...	Rotlers Street.
20	42	Sembiam	...	171, Paper Mills Road.
21	44	Ayanavaram	...	127, Kunnur High Road.
22	46	Nammalvarpet	...	21-A, Subbaraya Chetty St., 2nd Lane.
23	48	Kosapet	...	7/1, Chellappa Mudali Street.
24	51	Aminjikarai	...	171, Poonamallee High Road.
25	53	Chetput	...	24, McNichols Road.
26	55	Nungambakkam	...	15, Noor Veeraswamy Iyer Street.
27	56	Thousand Lights	...	Model School Street.
28	59	Pudupakkam	...	368, Pycrofts Road.
29	61	Kilpauk	...	6, Gangathareswarar Koil Street.
30	65	Chintadripet	...	2/61, Arunachala Naicken Street.
31	67	Egmore	...	34, Poosala Gengu Reddi Street.
32	69	Pudupet	...	83, Harris Road.
33	71	Tiruvateeswaranpet	...	102, Thayar Sahib Street.
34	72	Chepauk	...	Khana Bhaugh Street.
35	73 & 74	Triplicane	...	25, Pycrofts Road.
36	77	Zambazaar	...	Gazette Begum Street.
37	80	Krishnampet	...	Dr. Natesan Road.
38	84	Mylapore (North)	...	Karaneswarar Pagoda Street.
39	85	Mylapore (South)	...	101, Kutchery Road.
40	88	Teynampet	...	2/104, Mount Road.
41	89 & 90	Adayar	...	13, Greenways Road.
42	92	Kodambakkam	...	107, Arcot Road.
43	93	T. Nagar (North)	...	4, Dr. Sadhasivam Road.
44	94	T. Nagar (South)	...	3, Sivagnanam Road.
45	97	Saidapet	...	51, Sadayappa Mudali Street.
46	99	Guindy	...	1-A, Sathani Street.

Clinics :—

Venereal Clinic ... ... 82/83, Strahans Road, Perambur.
Leprosy Clinic ... ... (1) Ice House Road (Besant Road), Triplicane.
(2) Hope Lodge, Vyasarpady.
Tuberculosis Clinics ... Pulianthope High Road.
Government General Hospital.
Government Stanley Hospital
Government Royapettah Hospital.
Government Kasturba Gandhi Hospital.

Laboratories.—

Public Analyst's Laboratory, Ripon Buildings.
Public Health Clinical Laboratory, Ripon Buildings.
Water Analyst's Laboratory, Kilpauk Water Works (Tel. No. 2202).
Malaria Laboratory, Trevelyan Basin Water Works Street.

Hospitals.—

Infectious Diseases Hospital, Tiruvottiyur High Road, Tondiarpet (Tel. Nos. 5317 and 51293).

Other Institutions.—

Ashok Vihar, Health & Recreation Centre, Peoples Park (Tel. No. 4754).
Zoological Gardens, People's Park (Tel. No. 55314).
Lethal Chamber, Basin Road.
Hearse—Corporation Lorry Station (Tel. No. 3457).
Special Home for the Diseased and Infirm, Krishnampet (Tel. No. 86377)

Mid-day Meals Centres.—

(1) Basin Bridge Road, Kondithope, North Range.
(2) Iyah Mudaly Street, Chintadripet, Central Range (Tel. No. 85763).
(3) Conran Smith Road, Gopalapuram, South Range.

Veterinary Dispensaries —

Basin Bridge Road, Kondithope.
Barbers Bridge Road, Krishnampet.
Prasanna Vinayagar Koil Street, Mylapore.
Harris Road, Pudupet.

Corporation Cattle Yards.—

Basin Bridge Road, Kondithope.
Singanna Chetty Street, Chintadripet.
Vinaitheertha Vinayaga Mudali Street, Ko apet.
Venkatrangam Pillai Street, Saidapet.

Slaughter Houses.—

Sheep and Cattle—
Gantz Road, Perambur Barracks.
Alandur Road, Saidapet.

Pigs—
Junction of Basin Road and Pulianthope High Road.

Burial and Burning Grounds.

Serial No.	*Divn. No.*	*Name of Burial Ground.*	*Location.*
1	2	Kasimode Burial and Burning Ground.	Surynarayana Chetty Street.
2	5	St. Thomas Cemetry ...	West Cemetery Road.
3	8	Parsee Burial Ground ...	38-E, Main Road, Royapuram.
4	9	St. Roques Cemetry ...	6, Monegar Choultry Road.
5	9	Christian Mission Society Burial Ground.	Old Slaughter House Road.
6	14	Bora Muslims Burial Ground ...	1/146, Angappa Naicken Street.
7	23	Sait Mosquie Burial Ground ...	556, Thiruvottiyur High Road.
8	24	Washermanpet Hindu Burial Ground.	Kathiwakkam High Road.
9	31	Melpathi Ponnappa Mudaliar Street Burial Ground.	Melpathi Ponnappa Mudali Street.
10	32	Mannady Burial Ground ...	Mannady Road.
11	32	Subedar Muslim Burial Ground.	Mannady Road, Gantz Road.
12	38	Choolai Burning Ground ...	Basin Bridge Road.
13	38	Gujarathi Jain Burning Ground.	Ansari Road.
14	38	Vyasa Burning Ground ...	D'Millers Road.
15	41	Thangal Burial and Burning Grounds.	Thangal, Sembiam.
16	43	Battu Mode Burial Ground ...	Agaram, near North of Villivakkam Station.
17	47	Missory Synod Luther Mission Cemetry.	Brick Kiln Road.
17B	49	Purasawalkam Cemetry ...	Perambur Barracks Street.
18	51	Velangadu Burial and Burning Ground.	South of Avadi.
19	50	Ottery Burial and Burning Ground.	Brick Kiln Road.

Serial No.	*Divn. No.*	*Name of Burial Ground.*	*Location.*
20	50	Subadar Makhan Burial Ground.	Thandavraya Mudali Street
21	50	Lutheran Mission Cemetry ...	Brick Kiln Street.
22	51	Ayanavaram Burial Ground	Ayanavaram.
23	51	Kilpauk Christian Corporation Old Burial Ground.	henoynagar.
24	51	Aminjikarai Muslim Burial Ground.	Aminjikarai.
25	51	Kilpauk New Cemetry ...	15, Garden Street.
26	51	Buddhist Burial Ground ...	Thandavarayan Street.
27	51	Reddythope (Periakudal) Muslim Burial Ground.	Shenoy Nagar (Riverside)
28	51	Arumbakkam Burial and Burning Ground.	Arumbakkam.
29	51	Naduvankarai Burial and Burning Ground.	Do.
30	51	Mullam Village Burial Ground.	Arumbakkam.
31	54	Sterling Road Burial and Burning Ground.	Sterling Road.
32	57	St. George Cathedral Burial Ground.	Mount Road.
33	59	Rama Rao Makhan Burial Ground.	Peters Road.
34	71	St. Patric Burial Ground ...	Body Guard Road.
35	71	Sacred Heart Burial Ground ...	Do.
36	71	St. Andrew's Burial Ground ...	Do.
37	71	Armenian Street Burial Gound.	Do.
38	71	St. Mary's Burial Ground ...	Do.
39	79	Desthagir Sahib Durkha Burial Ground.	82, Dr. Natesan Road.
40	79	Syed Karimulla Sahib Burial Ground.	Do.
41	79	Pappu Masthan Durkha Burial Ground.	Lloyds Road.

Serial No.	*Divn. No.*	*Name of Burial Ground.*	*Location.*
42	79	Haji Ismail Maccan Burial Ground.	Do.
43	80	Krishnampet Burial and Burning Ground.	Gajapathi Lala Street.
44	80	Kudratha Alimakhan Burial Ground.	42, Dr. Natesan Road.
45	80	Neela Badth Durkha Burial Ground.	Behind Lady Wellington College.
46	80	Mylapore Hindu Burial and Burning Ground.	Karneeswarar Koil Street.
47	86	Elapatha Mada Coil Cemetry ...	66, St. Mary's Road.
48	89	Qubial Cemetry ...	Santhome High Road.
49	90	Urur Burial and Burning Ground.	Urur.
50	91	Aminjikarai Burial Ground ...	Lime Kiln Street.
51	92	Puliyur Burning and Burial Ground.	Puliyur.
52	92	Kodambakkam Burial and Burning Ground.	Kodambakkam.
53	95	Mambalam Burial and Burning Ground.	Kannampet, T. Nagar.
54	97	Jones Road Burial and Burning Ground.	Jones Road.
55	99	Jain Adayar Burial and Burning Ground.	Adayar.
56	99	Kottur Burial and Burning Ground.	Kottur.
57	99	Velaichery Burial and Burning Ground.	Velacheri Road.
58	99	Kallikandra Burial and Burning Ground.	Kallikandra.
59	99	Pathupet Burial and Burning Ground.	Guindy.
60	99	Little Mount Burial Ground ...	Little Mount.
61	99	Y.M.C.A. Burial Ground ...	Mount Road.

Serial No.	*Divn. No.*	*Name of Burial Ground.*	*Location.*
62	100	Muslim Burial Ground ...	32, Mosque Street.
63	100	Ikkattu Thangal Hindu Burial and Burning Ground.	Ikkattu Thangal Saidapet.

Cattle Depots and Veterinary Dispensaries.

Serial No.	*Divn. No.*	*Location*
1	3 ...	68, Gollavar Agraharam Road.
2	33, 34 & 35 ...	" G " Cattle Depot, Perambur High Road.
3	68 & 69 ...	" D " Depot, 25, Harris Road.
4	78 ...	" E " Depot, Muthiah Mudaly Street.
5	84 ...	Karaneswarar Pagoda Street.
6	93 ...	Junction of Kodambakkam Road and Thirumalai Pillai Road.
7	99 ...	Government Dispensary, Mount Road, Saidapet.

CHILD WELFARE CENTRES.

Serial No.	*Divn. No.*	*Name of Centre or Creche.*	*Location.*
1	1	Tondiarpet Child Welfare Centre.	385, Thiruvottiyur High Road.
2	8	Palmyrahkuppam Child Welfare Centre.	Near Corporation Model Lines, Palmyrahkuppam.
3	3	Royapuram Child Welfare Centre.	26, Suryanarayana Chetty Street, Royapuram.
4	3	Royapuram Creche ...	26, Suryanarayana Chetty Street, Royapuram.
5	4	Sanjeevirayanpet Child Welfare Centre.	21/22, Kappalpolu Chetty Street.
6	12	Broadway Creche ...	80/81, Broadway (Bunder Rama Naicken Garden).
7	13	Muthialpet Child Welfare Centre.	47, Linghi Chetty Street, G.T., Madras.
8	16	Kothwal Bazaar Child Welfare Centre.	1/27, Appu Maistry Koil Street, G.T., Madras.

Serial No.	*Divn. No.*	*Name of Centre or Creche.*	*Location.*
9	23	Washermanpet Child Welfare Centre.	86, Thiruvottiyur High Road, Washermanpet.
10	25	Basin Bridge Child Welfare Centre.	53-B, Basin Bridge Road.
11	26	Peddunaickenpet Child Welfare Centre.	18, Zinda Sahib Street, Peddunaickenpet.
12	26	George Town Child Welfare Centre.	44, Amman Koil Street, G.T., Madras.
13	28	Trevelyan Basin Child Welfare Centre.	52, Trevelyan Basin Street, Sowcarpet.
14	29	Edapalayam Child Welfare Centre.	Mallaya Market, Wall Tax Road.
15	31	Vyasarapdy Child Welfare Centre.	Bharathi Road, Perambur.
16	33	Pulianthope Child Welfare Centre.	1/33, Gantz Road, Pulianthope.
17	34	North Perambur Child Welfare Centre.	55, Perambur High Road
18	39	Choolai Maternity Home ...	15, Vijayavigneswarar Koil Street, Choolai.
19	40	Hospital Maidan Centre ...	39, B.P. Road, Choolai.
20	41	Sembiam Child Welfare Centre.	45, Paper Mills Road, Sembiam.
21	45	Ayanavaram Maternity Home.	United India Colony, Ayana varam.
22	46	Nammalwarpet Child Welfare Centre.	13-A Subbaraya Chetty Street, Nammalwarpet.
23	27	Kosapet Child Welfare Centre.	8, Chellappa Mudali Street, Kosapet.
24	50	Purasawalkam Child Welfare Centre.	109, Purasawalkam High Road, Purasawalkam.
25	51	Kilpauk Child Welfare Centre.	19, Halls Road, Kilpauk.
26	53	Chetpet Child Welfare Centre.	27, Jaganathapuram 2nd Street, Chetpet.
27	53	Chetpet Creche ...	Do.

Serial No.	*Divn. No.*	*Name of Centre or Creche.*	*Location.*
28	55	Nungambakkam Child Welfare Centre.	16, Noor Veeraswamy Iyer Street, Nungambakkam.
29	56	Thousand Lights Child Welfare Centre.	26, Aziz Mulk 3rd Street, Chetput.
30	58	Triplicane Child Welfare Centre.	8, Nyniappa Maistry Street, Triplicane.
31	64	Ashok Vihae Maternity Home.	Ashok Vihar, behind Moore Market, P.T., Madras.
32	64	Park Town Child Welfare Centre.	2/3, Periera Sreet, Park Town.
33	66	Napier Park Child Welfare Centre.	1/61, Arunachala Naicken Street, Chintadripet.
34	68	Egmore Child Welfare Centre.	37, Langs Garden Road, Egmore.
35	76	Zam Bazaar Child Welfare Centre.	24/25, Surappa Mudali, Street, Zambazaar.
36	77	Mirsahibpet Child Welfare Centre.	65, Dr. Besant Road, Triplicane.
37	79	Royapettah Child Welfare Centre.	84, Lloyds Road, Royapettah.
38	81	Teynampet Child Welfare Centre.	104, Mount Road, Teynampet.
39	84	Mylapore Child Welfare Centre.	48, Bazaar Road, Mylapore.
40	89	Mandavalli Child Welfare Centre.	34, Brodies Road, Adayar.
41	90	Adayar Child Welfare Centre.	44, Vasantha Press Road, Adayar.
42	92	Kodambakkam Child Welfare Centre.	68, Arcot Road, Kodambakkam.
43	93	T. Nagar (N.) Child Welfare Centre.	16, Raghaviah Road, T. Nagar.
44	94	T. Nagar (S.) Child Welfare Centre.	3, Sivagnanam Road,. T. Nagar.
45	97	Saidapet Sub-Centre ...	24, Dhanapal Chetty Street, Saidapet.
46	98	Saidapet Maternity Home ...	2, Jeenis Road, Saidapet.
47	99	Guindy Child Welfare Centre.	6, Perumal Koil St., Kottur Village, Guindy

Meteorological Data of Madras-Nungambakkam for the year 1960.

Months	Temperature °C			Monthly Rain-fall (in mms.)	Heaviest fall in 24 Hours	Number of Rainy days	Monthly mean Bar Pressure Mts.	Monthly Mean Rel. Humidity %	Mean Direction of wind in degrees from North
	Monthly Mean Maximum	Monthly Mean Minimum	Dew-point Temperature (at 8-30 Hrs.)						
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
							At 08-30 Hrs.		
January 1960 ...	28.2	21.0	20.9	43.1	39.2	2	1014.8	84	N 14 W
February 1960 ...	29.7	20.4	21.0	00.0	00.0	0	1013.8	85	N 30 W
March 1960 ...	31.5	22.8	22.1	00.0	00.0	0	1012.0	75	S 18 W
April 1960 ...	33.7	25.6	24.1	00.0	00.0	0	1009.6	73	S 40 W
May 1960 ...	36.2	27.3	23.2	08.1	08.1	1	1005.5	64	N 57 W
June 1960 ...	37.3	26.9	21.1	44.9	10.4	6	1004.8	58	S 79 W
July 1960 ...	34.5	25.5	23.0	63.8	18.1	8	1005.5	72	S 59 W
August 1960 ...	36.3	26.2	21.1	32.6	07.5	5	1005.8	64	S 72 W
September 1960 ...	32.6	24.0	23.3	274.9	70.8	13	1006.0	80	S 63 W
October 1960 ...	32.2	24.2	23.5	233.5	75.0	7	1010.2	80	S 87 W
November 1960 ...	27.6	22.2	22.9	849.5	209.6	18	1012.0	90	N 1 E
December 1960 ...	28.2	20.9	21.6	144.2	57.6	7	1014.4	86	N 19 W
Total ...	388.0	287.0	267.8	1,694.6	496.3	67	12,114.4	911	...

To convert degrees centigrade into degrees Farenheit apply :
(°C × 9/5 + 32 = °F).

STATISTICS SUPPLEMENT No. 2.

Showing births, deaths and infantile deaths registered in each division during 1960.

Division Nos.	Name of the New Divisions.	Area in Square Miles.	Area in Acres.	Number of Live Births Registered.			Number of Births of Males to every 100 Females Births.	Number of Deaths Registered excluding Still-Births.			Number of Deaths of Males to every 100 Females Deaths.	Number of Infant Death Registered.			Rate per 1,000 Live-Births Registered.	Number of Still-Births Registered.
				Males.	Females.	Total.		Males.	Females.	Total.		Males.	Females.	Total.		
1	New Washermenpet.	2,1629	1,384.256	493	473	966	104.2	320	335	655	95.5	104	93	197	203.93	28
2	Tondiarpet ...	0.4529	289.856	453	498	951	9.09	234	227	461	103.0	70	59	129	135.64	23
3	Grace Garden ...	0.2520	161.280	461	442	903	104.3	195	191	386	102.0	55	61	116	128.46	32
4	Sanjeevirayanpet ...	0.1613	103.232	355	379	734	93.7	176	160	336	110.0	57	46	103	140.32	22
5	Mottai Garden ...	0.1113	71.232	311	319	630	97.5	148	158	306	93.6	45	49	94	149.20	15
6	Narayanappa Naicken Garden ...	0.0713	45.632	322	276	598	116.7	131	157	288	83.4	38	48	86	143.77	18
7	Singara Garden ...	0.1320	84.480	335	302	637	110,9	164	169	333	97.0	34	56	90	141.28	21
8	Royapuram ...	0.3121	199.744	404	384	788	105.2	171	208	379	82.2	40	49	89	112.94	18
9	Meenakshiammenpet.	0.1984	126.976	1,313	1,304	2,617	100,7	273	277	550	98.5	120	102	222	84.82	156
10	Old Washermenpet ...	0.1810	115.840	395	364	759	108.5	244	189	433	129.1	68	44	112	147.56	19
11	Seven Wells (North)	0.0891	57.024	355	318	673	111.6	451	288	739	156.5	53	40	93	138.18	16
12	Ammen Koil (North)	0.0510	32.640	291	246	537	118.3	134	126	260	106.3	40	33	73	135.94	13
13	Muthialpet ...	0.0837	53.568	273	243	516	112.3	113	108	221	104.6	22	27	49	94.96	13
14	Harbour ...	0.5100	326.400	325	338	663	96.2	214	222	436	96.3	70	65	135	203.89	20
15	Mannady ...	0.0656	41.984	183	178	361	102.8	69	73	142	94.5	19	19	38	105.26	15
16	Ammen Koil (South)	0.0517	33.088	222	227	449	97.8	88	89	177	98.8	20	31	51	113.58	16
17	Seven Wells (South).	0.0767	49.088	370	326	696	113.5	123	112	235	109.8	39	30	69	99.13	19
18	Sowcarpet ...	0.0818	52.352	200	147	347	136.1	70	56	126	125.0	18	12	30	86.45	13
19	Kothavalchavadi ...	0.1250	80.000	213	227	440	93.8	116	103	219	112.6	26	26	52	118.18	19
20	Katchaleesvarar ...	0.5490	351.360	304	280	584	108.6	152	145	297	104.8	39	41	80	136.98	18
21	Korukupet ...	0.4789	319.290	375	387	762	96.9	221	260	481	85.0	58	74	132	173.22	25
22	Kumarasamy Nagar	0.1792	114.688	423	457	880	92.6	258	244	502	105.7	98	63	161	182.95	27

23	Dr. Vijayaragavalu Nagar ...	0.4331	277.184	604	582	1,186	103.8	365	377	742	96.8	131	96	227	191.39	37
24	Basin Bridge ...	0.2410	154.240	348	326	674	106.7	202	171	373	118.1	60	46	106	157.27	25
25	Kondithope ...	0.1155	73.920	371	350	721	106.0	169	139	308	121.5	63	37	100	138.69	30
26	Peddu Naickenpet ...	0.0983	62.912	429	415	844	103.4	200	215	415	93.0	75	52	127	150.47	30
27	Perumal Koil Garden.	0.0524	33.536	322	310	632	103.9	139	141	280	98.5	36	37	73	115.55	15
28	Trevelyan Basin ...	0.0696	44.544	236	262	498	90.3	88	89	177	98.8	26	28	54	108.43	14
29	Elephant Gate ...	0.0604	38.656	182	233	415	78.1	88	77	165	114.2	21	19	40	96.38	12
30	Edapalayam ...	0.0799	51.136	292	278	570	105.0	106	87	193	121.8	24	17	41	71.92	13
31	Perambur ...	0.8650	553.600	434	399	833	108.8	176	150	326	120.6	40	38	78	93.63	28
32	Vyasarpady ...	1.3200	884.800	407	402	809	101.2	241	285	526	84.5	75	80	155	181.70	22
33	Puliyanthope ...	0.2880	184.320	575	589	1,164	97.6	291	274	565	106.2	77	81	158	135.73	22
34	Wadia Nagar ...	0.4025	257.600	317	313	630	101.3	172	179	351	96.0	46	47	93	147.61	24
35	Thiru-Vi-Ka Nagar ...	0.5025	321.600	323	337	660	95.8	194	166	360	116.8	41	36	77	116.66	17
36	Pattalam ...	0.0845	54.080	229	212	441	108.0	101	96	197	105.2	32	20	52	117.93	10
37	Thattan Kulam ...	0.0655	41.920	342	309	651	110.7	149	143	292	104.1	30	37	67	102.91	17
38	Dr. Besant Nagar ...	0.2965	189.760	439	428	867	102.7	254	268	522	94.7	65	78	143	164.93	32
39	Choolai ...	0.0915	58.560	312	393	705	79.4	135	145	280	93.1	30	41	71	100.70	13
40	Hospital Garden ...	0.1321	84.544	378	376	754	100.5	143	152	295	94.0	50	30	80	106.10	21
41	Sembiam ...	0.8290	530.560	479	411	890	116.5	185	195	380	94.8	55	40	95	106.74	22
42	Seru Vellore ...	0.3019	193.216	271	270	541	100.4	108	110	218	98.1	27	23	50	92.51	11
43	Agaram ...	2.6509	1,696.576	241	239	480	100.8	105	82	187	128.0	32	18	50	104.16	6
44	Nagamma Ammai Nagar ...	0.3109	198.976	388	339	727	114.5	181	181	362	100.0	49	46	95	130.67	25
45	Ayanavaram ...	0.5300	339.200	509	444	944	112.6	200	167	367	119.7	52	44	96	101.69	21
46	Nammalvarpet ...	0.6901	384.064	305	292	597	104.5	217	187	404	116.0	41	50	91	152.42	14
47	Otteri ...	0.1178	75.392	401	342	743	117.3	208	187	395	111.2	54	53	107	144.01	37
48	Kosapet ...	0.1237	79.168	368	402	770	91.5	155	180	335	86.1	50	43	93	107.79	18
49	Perumalpet ...	0.1272	81.408	219	147	366	148.9	78	96	174	81.2	24	15	39	106.55	6
50	Purasawalkam ...	0.1847	118.208	291	265	556	109.8	129	129	258	100.0	27	29	56	100.71	9

Showing births, deaths and infantile deaths registered in each division during 1960.

Division No.	Name of the New Divisions.	Area in Square Miles.	Area in Acres.	Number of Live Births Registered.			Number of Births of Males to every 100 Females Births.	Number of Deaths Registered excluding Still-Births.			Number of Deaths of Males to every 100 Females Deaths.	Number of Infant Death Registered.			Rate per 1,000 Live-Births Registered.	Number of Still-Births Registered.
				Males.	Females.	Total.		Males.	Females.	Total.		Males.	Females.	Total.		
51	Shenoy Nagar ...	2.3891	1,529.024	330	350	680	94.3	165	177	342	93.2	43	53	96	144.11	20
52	Kilpauk ...	0.6186	395.904	415	394	809	105.3	235	159	394	141.5	26	26	52	64.27	23
53	Chetpet ...	0.4513	288.832	348	336	684	102.6	124	111	235	111.7	35	26	61	89.18	12
54	Nungambakkam ...	0.6754	432.256	280	258	538	108.5	127	133	260	95.4	26	40	66	104.08	16
55	Sevagram ...	0.4210	269.440	283	285	568	99.3	126	127	253	99.2	33	33	66	116.19	19
56	Thousand Lights (West) ...	0.7479	478.656	343	336	679	102.1	134	157	291	85.3	31	30	61	89.83	19
57	Thousand Lights (East) ...	0.2501	160.064	266	259	525	102.5	103	120	223	85.8	29	36	65	123.80	25
58	Pudupakkam ...	0.0842	53.888	323	314	637	102.9	150	178	328	84.2	43	48	91	142.85	30
59	Amir Mahal ...	0.2061	131.904	320	361	681	88.6	224	176	400	127.2	48	48	96	140.96	17
60	Royapettah ...	0.1631	104.384	305	311	614	98.1	131	118	249	111.0	38	32	70	144.92	14
61	Gangadeswarar Koil.	0.1771	113.344	241	242	483	99.6	92	96	188	95.8	28	20	48	99.37	11
62	Dr. Ambedkar Nagar.	0.3526	225.664	299	289	588	103.8	152	145	297	104.8	22	30	52	88.43	18
63	Periamet ...	0.3321	212.544	255	241	496	105.8	102	117	219	87.1	29	31	60	120.96	15
64	Park Town ...	0.4588	293.632	311	332	643	93.7	670	382	1,052	175.3	50	44	94	146.18	18
65	Adikesavapuram ...	0.1859	118.976	357	325	682	109.8	151	150	301	100.6	32	26	58	85.04	8
66	Chintadripet ...	0.1524	97.536	273	286	559	95.5	129	106	235	121.6	42	32	74	132.37	15
67	Egmore ...	0.5670	362.880	1,510	1,293	2,803	115.1	205	256	461	80.0	132	88	220	78.48	192
68	Pudupet ...	0.3751	240.064	371	330	701	112.1	135	129	264	104.6	30	30	60	85.59	15
69	Komaleeswaranpet ...	0.1797	115.008	297	271	568	109.6	125	104	229	120.1	32	32	64	112.85	10
70	Narasingapuram ...	0.1050	67.200	261	274	535	95.3	128	115	243	111.3	41	26	67	125.23	2

71	Nehru Nagar ...	0.6332	405.248	424	430	854	98.6	196	168	364	116.6	53	51	104	121.77	31
72	Thiruvatteesvaranpet.	0.1685	107.840	379	337	716	12.5	176	132	308	133.3	45	34	79	110.33	14
73	Chepauk ...	0.2535	162.240	541	495	1,036	109.3	116	147	263	78.9	54	40	94	90.73	47
74	Marina ...	0.1390	88.960	370	348	718	106.3	149	182	331	81.8	43	39	82	114.20	19
75	Triplicane ...	0.1573	100.672	291	245	536	118.8	111	89	200	124.7	27	26	53	98.88	13
76	Jam Bazaar ...	0.1286	82.304	415	347	762	119.6	174	162	336	107.4	43	40	83	108.92	20
77	Mirsahibpet ...	0.1253	80.192	412	367	779	112.3	192	205	397	93.6	58	46	104	133.50	17
78	Azad Nagar ...	0.2827	180.928	397	362	759	109.7	240	202	442	118.8	47	47	94	123.93	21
79	Durgapuram ...	0.3048	195.072	324	317	641	102.2	166	172	338	96.5	43	55	98	152.88	13
80	Krishnampet ...	0.1418	90.752	335	327	662	102.4	174	185	359	94.0	51	39	90	135.95	21
81	Teynampet ...	0.5236	335.104	277	308	585	89.9	118	130	248	90.7	33	39	72	123.07	18
82	Vivekanandapuram ...	0.3838	245.632	321	326	647	98.5	118	96	214	122.9	24	31	55	85.00	25
83	Madava Perumal-puram ...	0.1038	66.432	261	256	517	101.9	112	115	227	97.3	37	27	64	123.79	21
84	Karniswarapuram ...	0.2609	166.976	421	360	781	117.9	215	183	398	117.4	63	41	133	133.16	34
85	Santhome ...	0.2104	134.656	311	294	605	105.8	125	138	263	90.5	33	27	60	99.17	13
86	Mylapore ...	0.2195	140.480	290	259	549	111.9	149	140	289	106.4	37	39	76	138.43	15
87	Bheemannapet ...	0.7666	490.624	317	304	621	104.3	133	131	264	101.5	32	30	62	99.83	11
88	Alwarpet ...	0.6906	441.984	332	344	676	96.5	141	163	304	86.4	37	55	92	136.09	20
89	Raja Annamalaipuram	1.9966	1,277.824	514	507	1,021	101.4	192	207	399	92.7	54	48	102	99.90	36
90	Adyar ...	1.9616	1,255.424	253	290	543	87.1	121	110	231	110.0	27	26	53	97.60	14
91	Aminjikarai ...	1.9516	1,249.024	600	495	1,095	121.2	273	285	558	95.7	67	72	139	126.94	24
92	Vadapalani ...	1.0866	695.424	716	689	1,405	103.9	227	230	457	98.6	72	70	142	101.06	36
93	Theagarayanagar ...	0.6245	399.680	343	349	692	98.3	170	145	315	117.2	28	32	60	86.70	15
94	Sathyamoorthi Nagar.	0.7735	495.040	392	366	758	107.1	208	207	415	100.4	71	68	139	183.37	20
95	Rajaji Nagar ...	0.4685	299.840	306	358	664	85.5	161	154	315	104.5	46	47	93	140.06	20
96	Kamaraj Nagar ...	1.2526	801.664	372	330	702	112.7	162	182	344	89.0	46	31	77	109.68	17
97	Saidapet (North) ...	0.6026	385.664	271	221	492	122.6	149	143	292	104.1	37	45	82	166.66	15
98	Periapet ...	0.4215	269.760	405	364	769	111.3	160	190	350	84.2	40	39	79	102.70	17
99	Guindy ...	5.3240	3,407.360	392	364	756	107·7	182	175	357	104.0	45	48	93	122.96	20
100	Saidapet (South) ...	1.5186	971.904	332	303	635	109.6	132	146	278	90.4	42	29	71	111.81	17
	Total ...	49.7400	31,823.594	37,081	35,529	72,610	104.3	17.194	16,535	33,729	103.9	4,591	4,241	8,832	121.63	2,242

Births Registered in each Division during each month in 1960.

Division No.	Name of the New Divisions.	January	February	March	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
1	New Washermenpet.	60	61	47	78	80	94	85	77	78	87	82	137	966
2	Tondiarpet ...	69	72	44	82	83	85	76	85	72	79	91	113	951
3	Grace Garden ...	34	66	58	88	67	96	78	81	82	72	82	99	903
4	Sanjeevirayanpet ...	45	47	40	50	68	57	71	62	68	73	62	91	734
5	Mottai Garden ...	41	41	26	48	66	39	60	45	55	69	56	84	630
6	Narayanappa Naicken Garden ...	33	38	21	59	52	33	83	46	65	51	44	73	598
7	Singara Garden ...	26	48	20	60	42	55	54	41	57	75	77	82	637
8	Royapuram ...	49	62	27	100	66	65	72	71	57	71	62	86	788
9	Meenakshiammenpet.	129	154	87	299	237	237	205	241	180	263	208	377	2,617
10	Old Washermenpet ...	29	47	25	67	81	49	82	67	76	77	53	106	759
11	Seven Wells (North)	29	42	27	41	95	55	58	58	54	55	62	97	673
12	Ammen Koil (North)	22	31	30	53	54	51	47	58	41	49	31	70	537
13	Muthialpet ...	24	30	25	41	45	55	52	45	42	52	49	56	516
14	Harbour ...	22	66	40	77	57	56	60	49	61	63	50	62	663
15	Mannady ...	17	33	27	30	34	32	23	32	30	34	42	27	361
16	Ammen Koil (South)	8	30	29	39	41	40	45	39	42	45	39	52	449
17	Seven Wells (South).	22	51	44	61	57	31	65	67	66	76	51	105	696
18	Sowcarpet ...	15	22	25	21	40	25	36	36	27	24	33	43	347
19	Kothavalchavadi ...	18	27	31	27	42	35	41	36	38	45	38	62	440
20	Katchaleeswarar ...	26	41	47	44	63	47	57	45	48	59	54	53	584
21	Korukupet ...	30	45	41	49	86	63	69	67	85	64	55	108	762
22	Kumarasamy Nagar.	45	73	42	58	109	56	62	71	24	143	74	123	880
23	Dr. Vijayaragavalu Nagar ...	58	91	69	75	131	81	102	112	37	163	103	164	1,186

24	Basin Bridge ...	35	42	19	49	43	80	50	86	57	66	43	104	674
25	Kondithope ...	26	50	47	59	45	70	62	64	57	66	49	126	721
26	Peddu Naickenpet ...	32	54	57	58	69	82	68	65	74	76	83	126	844
27	Perumal Koil Garden.	16	39	34	42	56	39	58	66	50	74	68	90	632
28	Trevelyan Basin ...	15	39	35	23	56	46	50	47	49	45	35	58	498
29	Elephant Gate ...	7	24	30	21	47	34	29	54	32	31	51	55	415
30	Edapalayam ...	10	47	39	27	51	42	43	66	49	64	48	84	570
31	Perambur ...	17	62	53	43	44	62	121	85	85	82	80	99	833
32	Vyasarpady ...	15	74	58	57	66	61	81	82	55	92	71	117	809
33	Puliyanthope ...	83	56	62	98	88	95	112	118	94	130	97	131	1,162
34	Wadia Nagar ...	29	30	43	45	53	45	48	71	65	55	52	94	630
35	Thiru-Vi-Ka Nagar ...	25	49	53	33	48	59	72	54	62	72	54	79	660
36	Pattalam ...	21	27	31	21	29	40	58	34	36	54	32	58	441
37	Thattan Kulam ...	43	32	42	41	43	47	60	60	63	66	62	92	653
38	Dr. Besant Nagar ...	51	48	40	68	75	78	83	85	90	90	72	87	867
39	Choolai ...	39	52	46	43	49	72	75	55	76	63	58	77	705
40	Hospital Garden ...	41	48	56	58	71	44	68	60	73	73	68	94	754
41	Sembiam ...	35	57	66	56	72	54	37	124	96	95	93	105	890
42	Seru Vellore ...	20	37	39	43	51	51	37	77	38	56	38	54	541
43	Agaram ...	14	33	37	30	40	35	41	51	39	67	36	57	480
44	Nagamma Ammai Nagar ...	26	55	50	58	59	62	76	69	48	77	55	92	727
45	Ayanavaram ...	44	55	72	77	67	102	72	64	61	112	105	113	944
46	Nammalvarpet ...	10	41	48	49	59	60	64	60	37	71	38	60	597
47	Otteri ...	37	53	69	27	50	75	76	74	54	52	86	90	743
48	Kosapet ...	37	78	52	51	77	80	61	66	70	66	58	74	770
49	Perumalpet ...	15	31	17	22	32	33	33	31	27	34	33	58	366
50	Purasawalkam ...	18	38	46	27	52	50	59	58	45	52	48	63	553

Births Registered in each Division during each month in 1960.

Division No.	Name of the New Divisions.	January.	February	March	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
51	Shenoy Nagar ...	15	47	52	42	73	43	70	94	27	84	63	70	680
52	Kilpauk ...	14	65	67	50	83	64	85	109	41	72	82	77	809
53	Chetpet ...	8	63	65	41	50	64	63	80	55	69	45	81	685
54	Nungambakkam ...	3	40	46	32	37	43	49	49	37	63	58	81	538
55	Sevagram ...	16	51	45	33	49	43	44	53	55	68	45	66	568
56	Thousand Lights (West) ...	21	44	53	45	49	60	62	75	41	76	62	91	679
57	Thousand Lights (East) ...	3	52	27	41	45	43	50	50	32	64	39	79	525
58	Pudupakkam ...	20	56	50	49	64	41	62	71	40	60	50	74	637
59	Amir Mahal ...	23	62	47	49	58	50	59	57	50	63	71	92	681
60	Royapettah ...	23	56	38	44	50	56	48	56	47	62	57	79	616
61	Gangadeswarar Koil.	21	38	39	29	59	44	42	51	31	50	38	41	483
62	Dr. Ambedkar Nagar.	37	39	44	33	55	56	53	38	50	62	50	71	588
63	Periamet ...	22	30	36	36	46	41	52	33	49	40	57	54	496
64	Park Town ...	21	42	52	36	59	43	47	60	80	66	60	77	643
65	Adikesavapuram ...	36	48	45	40	61	58	42	65	63	65	68	91	682
66	Chintadripet ...	33	40	28	31	55	48	35	63	47	53	61	65	559
67	Egmore ...	27	191	196	187	186	189	358	264	334	203	205	463	2,805
68	Pudupet ...	25	64	59	40	62	49	62	57	58	67	83	75	701
69	Komaleeswaranpet ...	21	41	42	34	56	27	46	72	50	34	73	72	568
70	Narasingapuram ...	26	35	40	35	56	41	43	38	37	72	48	64	535
71	Nehru Nagar ...	16	69	58	58	72	53	76	80	102	92	84	94	854
72	Thiruvatteesvaranpet.	31	60	34	61	48	51	65	62	63	55	90	96	716
73	Chepauk ...	32	82	59	70	95	100	81	72	109	97	115	124	1,036

74	Marina ...	37	40	52	56	77	60	56	49	62	84	68	77	718
75	Triplicane ...	20	26	42	32	54	41	55	46	50	55	54	61	536
76	Jam Bazaar ...	34	45	52	74	58	71	75	58	67	64	82	82	762
77	Mirsahibpet ...	44	43	54	42	73	63	70	67	72	86	82	83	779
78	Azad Nagar ...	22	47	42	46	78	66	72	90	62	76	54	104	759
79	Durgapuram ...	46	43	49	19	55	51	44	67	53	82	46	86	641
80	Krishnampet ...	26	37	47	38	89	50	51	56	52	61	52	103	662
81	Teynampet ...	33	31	34	40	52	45	46	61	55	54	49	85	585
82	Vivekanandapuram ...	36	48	46	49	53	59	52	47	48	69	52	88	647
83	Madava Perumal-puram ...	28	33	34	30	48	41	56	46	40	36	50	75	517
84	Karniswarapuram ...	36	50	54	55	76	62	52	83	66	76	77	94	781
85	Santhome ...	18	37	49	37	69	46	48	69	41	68	50	73	605
86	Mylapore ...	20	30	40	32	38	56	59	45	36	44	64	85	549
87	Bheemannapet ...	21	22	42	46	60	48	56	58	48	51	79	91	621
88	Alwarpet ...	29	40	43	48	60	57	59	71	57	61	49	102	676
89	Raja Annamalaipuram	25	72	52	59	74	98	66	89	59	97	116	214	1,021
90	Adyar ...	14	48	31	34	32	51	37	54	43	50	63	86	543
91	Aminjikarai ...	28	80	71	59	108	66	145	120	94	108	104	112	1,095
92	Vadapalani ...	54	81	76	135	127	89	94	135	183	82	180	169	1,405
93	Theagarayanagar ...	24	46	44	42	64	47	73	85	59	76	59	73	692
94	Sathyamoorthi Nagar.	23	59	63	48	72	51	47	70	76	65	84	100	758
95	Rajaji Nagar ...	16	54	53	43	45	36	85	40	96	42	82	72	664
96	Kamaraj Nagar ...	29	42	44	58	56	71	41	79	49	40	91	102	702
97	Saidapet (North) ...	25	52	32	25	60	24	46	37	35	41	45	70	492
98	Periapet ...	29	73	78	58	76	49	59	73	46	68	69	91	769
99	Guindy ...	26	60	54	51	58	72	56	58	69	56	31	165	756
100	Saidapet (South) ...	19	46	56	38	77	38	55	69	43	48	61	85	635
	Total ...	2,868	5,069	4,649	5,183	6,445	5,850	6,526	6,828	6,126	7,047	6,608	9,412	72,610

STATISTICS SUPPLEMENT NO. 4.

Births Registered among Principal Communities in each Division during 1960.

Division No.	Name of the New Divisions.	Aliens.		Anglo-Indians.		Indian Christians.		Hindus.		Muslims.		Others.		Total.		Grand total.
		Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	
1	New Washermenpet.	...	...	...	...	23	16	436	424	33	32	1	1	493	473	966
2	Tondiarpet ...	...	...	2	3	49	69	395	421	7	5	...	...	453	498	951
3	Grace Garden ...	...	...	2	1	44	40	360	354	55	47	...	...	461	442	903
4	Sanjeevirayanpet ...	...	...	1	...	5	8	348	365	1	6	...	...	355	379	734
5	Mottai Garden ...	...	...	...	...	4	4	276	288	31	27	...	...	311	319	630
6	Narayanappa Naicken Garden ...	...	...	...	1	4	1	316	273	2	1	...	...	322	276	598
7	Singara Garden ...	...	...	...	...	5	6	329	295	1	1	...	...	335	302	637
8	Royapuram ...	...	...	9	9	50	56	323	307	22	12	...	...	404	384	788
9	Meenakshiammenpet.	...	...	3	3	44	43	1,188	1,161	78	97	...	...	1,313	1,304	2,617
10	Old Washermenpet ...	...	...	...	1	29	27	343	314	23	22	...	...	395	364	759
11	Seven Wells (North)	...	...	4	1	14	12	321	295	16	10	...	...	355	318	673
12	Ammen Koil (North)	...	...	2	1	24	20	231	196	34	29	...	...	291	246	537
13	Muthialpet ...	...	...	...	...	3	4	240	220	30	19	...	...	273	243	516
14	Harbour ...	...	...	...	...	9	7	194	218	122	113	...	...	325	338	663
15	Mannady ...	...	...	...	...	19	11	149	165	15	2	...	...	183	178	361
16	Ammen Koil (South)	...	...	1	2	15	17	174	166	32	42	...	...	222	227	449
17	Seven Wells (South).	...	...	4	1	7	11	312	268	47	46	...	...	370	326	696
18	Sowcarpet ...	...	...	...	...	...	3	195	143	5	1	...	...	200	147	347
19	Kothavalchavadi ...	...	...	...	...	1	8	162	176	50	43	...	...	213	227	440
20	Katchaleeswarar ...	1	...	1	...	14	8	262	246	26	26	...	...	304	280	584
21	Korukupet ...	...	...	...	1	3	2	371	382	1	2	...	...	375	387	762
22	Kumarasamy Nagar.	...	...	...	...	3	5	376	432	44	20	...	...	423	457	880

23	Dr. Vijayaragavalu Nagar ...	...	...	...	...	21	13	368	327	215	242	...	...	604	582	1,186
24	Basin Bridge ...	...	...	3	...	23	21	275	261	47	44	...	...	348	326	674
25	Kondithope ...	...	...	1	...	2	2	360	337	8	11	...	...	371	350	721
26	Peddu Naickenpet ...	...	...	...	...	...	2	429	411	...	2	...	...	429	415	844
27	Perumal Koil Garden.	...	...	...	...	1	1	321	309	...	...	...	...	322	310	632
28	Trevelyan Basin ...	...	...	...	...	...	...	236	262	...	...	...	...	236	262	498
29	Elephant Gate ...	...	...	...	...	...	...	181	232	1	1	...	...	182	233	415
30	Edapalayam ...	...	...	...	...	...	...	291	278	1	...	...	...	292	278	570
31	Perambur ...	...	...	1	2	18	10	411	384	4	3	...	...	434	399	833
32	Vyasarpady ...	...	...	1	...	29	25	370	371	7	6	...	...	407	402	809
33	Puliyanthope ...	...	...	...	...	25	22	426	445	124	122	...	...	575	589	1,164
34	Wadia Nagar ...	1	...	...	...	13	11	207	212	96	90	...	...	317	313	630
35	Thiru-Vi-Ka Nagar ...	...	...	2	1	34	36	275	286	12	14	...	...	323	337	660
36	Pattalam ...	...	...	...	...	17	10	200	195	12	7	...	...	229	212	441
37	Thattan Kulam ...	...	...	...	...	2	6	329	291	11	12	...	...	342	309	651
38	Dr. Besant Nagar ...	...	...	...	...	23	17	312	311	104	100	...	...	439	428	867
39	Choolai ...	...	...	...	...	5	6	303	386	4	1	...	...	312	393	705
40	Hospital Garden ...	...	...	2	4	20	19	352	352	4	1	...	...	378	376	754
41	Sembiam ...	...	...	5	14	33	30	403	341	38	26	...	...	479	411	890
42	Seru Vellore ...	...	...	2	4	17	20	230	232	22	14	...	...	271	270	541
43	Agaram ...	...	...	6	15	17	15	213	205	5	4	...	...	241	239	480
44	Nagamma Ammai Nagar ...	...	...	...	1	15	18	361	307	12	13	...	...	388	339	727
45	Ayanavaram ...	...	...	4	...	12	18	468	410	16	16	...	...	500	444	944
46	Nammalvarpet ...	...	...	...	...	22	17	280	273	3	2	...	...	305	292	592
47	Otteri ...	...	...	2	1	21	25	371	312	7	4	...	...	401	342	743
48	Kosapet ...	...	...	...	...	11	12	350	381	7	9	...	...	368	402	770
49	Perumalpet ...	...	...	3	...	34	22	178	122	4	3	...	...	219	147	366
50	Purasawalkam ...	...	...	...	...	26	22	262	235	3	8	...	...	291	265	556

Births Registered among Principal Communities in each Division during 1960.

Division No.	Name of the New Divisions.	Aliens.		Anglo-Indians.		Indian Christians.		Hindus.		Muslims.		Others.		Total.		Grand Total.
		Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	
51	Shenoy Nagar ...	...	...	1	...	18	10	298	322	13	18	...	...	330	350	680
52	Kilpauk ...	1	1	1	2	45	33	359	351	9	7	...	...	415	394	809
53	Chetpet ...	...	...	...	...	36	40	298	288	14	8	...	...	348	336	684
54	Nungambakkam ...	...	1	...	...	26	20	251	229	3	8	...	...	280	258	538
55	Sevagram ...	...	...	...	...	8	12	274	270	1	3	...	...	283	285	568
56	Thousand Lights (West) ...	6	5	2	2	43	42	245	251	46	35	1	1	343	336	679
57	Thousand Lights(East)	1	...	1	...	43	39	196	201	25	19	...	...	266	259	525
58	Pudupakkam ...	...	...	...	...	5	4	257	248	61	62	...	...	323	314	637
59	Amir Mahal ...	...	...	2	...	21	31	198	216	99	114	...	...	320	361	681
60	Royapettah ...	...	...	1	1	15	13	282	290	7	7	...	...	305	311	616
61	Gangadeswarar Koil.	...	...	...	...	8	10	227	227	6	5	...	...	241	242	483
62	Dr. Ambedkar Nagar.	...	1	3	7	54	56	203	206	39	19	...	...	299	289	588
63	Periamet ...	...	...	2	3	16	17	226	200	11	21	...	...	255	241	496
64	Park Town ...	...	...	6	1	11	14	281	301	13	16	...	...	311	332	643
65	Adikesavapuram ...	...	...	2	1	35	33	309	286	11	5	...	...	357	325	682
66	Chintadripet ...	...	...	2	...	4	1	251	271	16	14	...	...	273	286	559
67	Egmore ...	...	...	1	1	81	61	1,393	1,191	35	40	...	...	1,510	1,293	2,803
68	Pudupet ...	1	...	1	5	71	53	236	202	62	70	...	...	371	330	701
69	Komaleeswaranpet ...	...	...	...	...	12	5	271	248	14	18	...	...	297	271	568
70	Narasingapuram ...	...	...	1	1	10	15	233	245	17	13	...	...	261	274	535
71	Nehru Nagar ...	...	...	1	...	8	4	268	274	147	152	...	...	424	430	854
72	Thiruvatteeswaranpet	...	...	...	...	5	4	261	222	113	111	...	...	379	337	716

73	Chepauk ...	...	...	...	...	15	15	477	438	49	42	...	...	541	495	1,036
74	Marina ...	...	...	...	...	1	1	366	345	3	2	...	...	370	348	718
75	Triplicane ...	...	...	...	...	1	4	285	238	5	3	...	...	291	245	536
76	Jam Bazaar ...	...	...	...	...	3	5	349	286	63	56	...	...	415	347	762
77	Mirsahibpet ...	...	...	...	...	11	7	202	167	199	193	...	...	412	367	779
78	Azad Nagar ...	...	1	...	1	10	13	343	315	44	32	...	...	397	362	759
79	Durgapuram ...	...	...	...	...	6	3	268	248	50	66	...	...	324	317	641
80	Krishnampet ...	...	...	...	...	5	7	285	295	45	25	...	...	335	327	662
81	Teynampet ...	...	...	...	...	8	11	262	293	7	4	...	...	277	308	585
82	Vivekanandapuram ...	...	2	...	...	12	24	304	293	5	7	...	...	321	326	647
83	Madava Perumalpuram ...	...	...	...	...	2	2	254	245	5	9	...	...	261	256	517
84	Karniswarapuram ...	...	...	...	...	9	11	372	327	40	22	...	...	421	360	781
85	Santhome ...	...	...	1	1	51	52	247	226	12	15	...	...	311	294	605
86	Mylapore ...	1	...	...	...	6	4	277	251	6	4	...	...	290	259	549
87	Bheemannapet ...	...	...	...	...	8	12	308	290	1	2	...	...	317	304	621
88	Alwarpet ...	...	1	...	...	9	8	319	329	4	6	...	...	332	344	676
89	Raja Annamalaipuram	...	...	...	...	44	36	467	461	3	10	...	...	514	507	1,021
90	Adyar ...	...	...	...	...	11	11	229	267	13	12	...	...	253	290	543
91	Aminjikarai ...	...	...	...	...	28	25	552	447	20	23	...	...	600	495	1,095
92	Vadapalani ...	...	...	...	2	23	27	660	641	33	19	...	...	716	689	1,405
93	Theagarayanagar ...	...	...	...	...	5	3	335	344	3	2	...	...	343	349	692
94	Sathyamoorthi Nagar.	...	...	...	...	11	7	368	356	13	3	...	...	392	366	758
95	Rajaji Nagar ...	...	...	...	...	...	...	306	354	...	4	...	...	306	358	664
96	Kamaraj Nagar ...	...	...	...	...	...	3	369	322	3	5	...	...	372	330	702
97	Saidapet (North) ...	...	...	...	...	2	1	267	216	2	4	...	...	271	221	492
98	Periapet ...	...	...	...	...	12	14	366	333	27	17	...	...	405	364	769
99	Guindy ...	...	...	...	...	40	36	334	305	18	23	...	...	392	364	756
100	Saidapet (South) ...	...	...	...	...	9	6	318	288	5	9	...	...	332	303	635
	Total ...	12	12	89	94	1,727	1,643	32,369	31,036	2,882	2,742	2	2	37,081	35,529	72,610

Deaths Registered in each Division during each month in 1960.

Division No.	Name of the New Divisions.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total Deaths Registered excluding Sill-Births.
1	New Washermenpet.	65	67	45	53	40	52	31	49	45	58	65	85	655
2	Tondiarpet ...	44	47	32	21	25	41	32	42	22	37	66	52	461
3	Grace Garden ...	34	35	41	21	26	15	16	27	27	46	43	55	386
4	Sanjeevirayanpet ...	27	27	18	19	28	19	21	22	27	31	39	58	336
5	Mottai Garden ...	22	30	26	18	24	16	19	17	27	49	24	34	306
6	Narayanappa Naicken Garden ...	18	33	21	18	22	19	20	19	23	28	26	41	288
7	Singara Garden ...	11	35	24	25	18	22	25	28	24	38	43	40	333
8	Royapuram ...	23	41	32	25	22	36	30	27	30	33	42	38	379
9	Meenakshiammenpet.	29	51	28	32	40	42	41	60	48	40	44	95	550
10	Old Washermenpet ...	32	35	30	24	30	33	68	29	25	41	26	60	433
11	Seven Wells (North)	57	60	46	58	57	63	32	43	54	73	73	123	739
12	Ammen Koil (North)	36	21	17	12	16	17	19	19	20	27	23	33	260
13	Muthialpet ...	13	14	14	16	16	15	24	18	23	24	19	25	221
14	Harbour ...	41	28	22	26	33	40	42	51	31	44	38	40	436
15	Mannady ...	17	9	9	9	13	6	14	9	14	17	17	8	142
16	Ammen Koil (South)	12	15	9	12	16	12	17	17	12	10	24	21	177
17	Seven Wells (South).	13	22	24	9	18	11	22	25	15	19	28	29	235
18	Sowcarpet ...	10	7	13	6	12	6	9	10	14	17	11	11	126
19	Kothavalchavadi ...	14	18	16	9	15	17	18	17	15	27	20	33	219
20	Katchaleesvarar ...	25	25	25	24	23	14	20	26	27	25	29	34	297
21	Korukupet ...	42	29	40	28	30	33	24	31	37	57	57	73	481
22	Kumarasamy Nagar.	37	33	41	28	45	41	32	33	37	50	65	60	502

23 Dr. Vijayaragavalu Nagar ...	63	51	64	42	53	34	58	63	50	81	76	107	742
24 Basin Bridge ...	40	28	29	19	25	22	20	33	33	46	34	44	373
25 Kondithope ...	30	17	21	18	23	22	20	30	16	43	30	38	308
26 Peddu Naickenpet ...	33	40	27	28	39	35	36	36	29	36	32	44	415
27 Perumal Koil Garden.	20	23	22	20	18	17	20	18	22	34	25	41	280
28 Trevelyan Basin ...	11	14	15	16	11	15	16	16	14	25	10	14	177
29 Elephant Gate ...	5	11	14	7	18	14	17	13	10	16	16	24	165
30 Edapalayam ...	20	18	21	14	6	16	12	24	14	20	11	17	193
31 Perambur ...	25	20	19	22	25	18	26	30	26	27	43	45	326
32 Vyasarpady ...	45	62	44	32	36	26	42	45	27	48	51	68	526
33 Puliyanthope ...	40	49	44	32	40	37	46	41	43	52	50	91	565
34 Wadia Nagar ...	29	33	27	24	31	16	28	42	24	23	33	41	351
35 Thiru-Vi-Ka Nagar ...	34	43	31	12	26	24	22	17	15	43	30	63	360
36 Pattalam ...	14	26	20	5	15	19	11	13	10	19	19	26	197
37 Thattan Kulam ...	16	26	31	18	30	27	17	22	15	30	30	30	292
38 Dr. Besant Nagar ...	35	54	41	35	36	36	41	37	39	42	56	70	522
39 Choolai ...	23	31	22	16	21	16	17	23	28	26	26	31	280
40 Hospital Garden ...	24	33	24	22	24	21	22	25	15	29	21	35	295
41 Sembiam ...	27	38	26	32	35	22	26	31	36	28	30	49	380
42 Seru Vellore ...	14	30	18	9	15	15	12	22	14	27	17	25	218
43 Agaram ...	18	23	14	9	15	12	14	12	11	26	12	21	187
44 Nagamma Ammai Nagar ...	23	40	31	31	25	26	29	22	26	34	31	44	362
45 Ayanavaram ...	25	39	26	19	30	20	32	31	20	45	26	54	367
46 Nammalvarpet ...	43	42	32	28	25	28	41	29	20	37	34	45	404
47 Otteri ...	25	36	20	19	24	32	21	31	24	52	45	66	395
48 Kosapet ...	26	42	32	13	30	18	27	24	20	24	25	54	335
49 Perumalpet ...	15	15	14	10	10	10	8	22	6	18	25	21	174
50 Purasawalkam ...	21	21	27	21	15	18	19	23	21	15	32	25	258

Deaths Registered in each Division during each month in 1960.

Division No.	Name of the New Divisions.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total Deaths Regis-tered exclud-ing Still-Births.
51	Shenoy Nagar ...	25	27	35	26	19	26	33	25	20	29	34	43	342
52	Kilpauk ...	14	39	33	18	30	30	17	32	34	40	23	84	394
53	Chetpet ...	11	20	26	11	24	18	19	31	11	17	24	23	235
54	Nungambakkam ...	27	31	21	12	19	23	16	24	11	20	23	33	260
55	Sevagram ...	15	27	25	17	25	30	17	18	11	18	24	26	253
56	Thousand Lights (West) ...	28	19	37	15	25	15	23	22	19	27	22	39	291
57	Thousand Lights (East)	7	24	27	7	21	10	21	22	16	30	14	24	223
58	Pudupakkam ...	33	30	31	27	20	22	15	27	18	25	32	48	328
59	Amir Mahal ...	12	32	37	20	32	35	25	34	29	40	32	72	400
60	Royapettah ...	25	25	20	17	21	14	13	23	20	20	17	35	249
61	Gangadeswarar Koil.	18	20	12	16	9	15	10	15	16	13	23	21	188
62	Dr. Ambedkar Nagar.	25	25	35	11	25	23	14	27	27	17	24	34	297
63	Periamet ...	12	24	24	15	18	13	13	16	18	18	16	32	219
64	Park Town ...	12	112	113	76	105	85	88	73	98	82	56	152	1,052
65	Adikesavapuram ...	13	29	26	21	28	20	22	23	12	19	43	45	301
66	Chintadripet ...	15	21	21	17	24	17	9	17	20	22	20	32	235
67	Egmore ...	9	41	42	27	48	30	49	40	42	49	34	50	461
68	Pudupet ...	16	29	24	19	22	25	14	12	13	20	33	37	264
69	Komaleeswaranpet ...	12	21	26	16	14	12	14	17	19	16	28	34	229
70	Narasingapuram ...	18	30	19	16	20	17	22	15	21	20	23	22	243
71	Nehru Nagar ...	17	28	28	17	29	19	27	38	28	43	37	53	364
72	Thiruvatteeswaranpet	31	30	27	20	25	21	28	21	21	25	34	25	308

73	Chepauk ...	9	23	20	21	24	11	19	24	27	25	23	37	263
74	Marina ...	28	26	24	20	23	22	28	19	22	27	34	58	331
75	Triplicane ...	5	13	16	15	19	12	11	17	19	23	18	32	200
76	Jam Bazaar ...	22	28	24	26	27	24	17	26	27	29	37	49	336
77	Mirsahibpet ...	29	45	22	32	31	34	28	27	32	31	33	53	397
78	Azad Nagar ...	27	35	43	22	29	18	31	40	45	47	36	69	442
79	Durgapuram	19	39	28	16	26	21	20	29	28	39	32	41	338
80	Krishnampet ...	27	27	34	17	31	26	13	35	28	27	32	62	359
81	Teynampet ...	14	23	17	20	19	17	14	23	20	27	20	34	248
82	Vivekanandapuram ...	10	21	21	15	19	15	20	17	13	18	9	36	214
83	Madava Perumalpnram ...	13	12	34	7	23	18	19	26	22	14	18	21	227
84	Karniswarapuram ...	21	43	28	19	30	29	27	44	24	36	39	58	398
85	Santhome ...	18	30	27	20	30	17	17	16	21	19	22	26	263
86	Mylapore ...	18	27	22	17	26	18	35	24	29	29	20	24	289
87	Bheemannapet ...	14	14	26	11	21	14	16	32	24	24	27	41	264
88	Alwarpet ...	29	27	25	26	24	26	21	37	19	26	21	23	304
89	Raja Annamalaipuram	33	46	25	22	27	33	31	38	25	26	36	57	399
90	Adyar ...	13	26	21	17	18	18	19	20	12	19	18	30	231
91	Aminjikarai ...	34	74	51	44	38	28	39	40	49	48	54	59	558
92	Vadapalani ...	23	44	37	30	41	25	29	42	30	46	39	71	457
93	Theagarayanagar ...	22	36	23	28	26	26	20	35	22	16	27	34	315
94	Sathyamoorthi Nagar.	36	38	37	28	41	45	35	31	28	27	31	38	415
95	Rajaji Nagar ...	16	35	25	12	22	29	14	28	20	23	36	55	315
96	Kamaraj Nagar ...	45	32	18	19	31	39	21	33	27	17	28	34	344
97	Saidapet (North) ...	19	34	21	19	26	20	21	20	19	23	28	42	292
98	Periapet ...	31	41	27	25	30	19	28	31	16	33	38	31	350
99	Guindy ...	26	34	28	28	27	21	29	25	24	23	29	63	357
100	Saidapet (South) ...	12	24	23	21	29	21	11	30	20	34	21	32	278
	Total ...	2,373	3,168	2,765	2,104	2,631	2,352	2,418	2,775	2,441	3,133	3,114	4,455	33,729

Deaths Registered among Principal Communities in each Division during the year 1960.

Division No.	Name of the New Divisions.	Aliens.		Anglo-Indians.		Indian Christians.		Hindus.		Muslims.		Others.		All Communities		Total Deaths Registered (excluding Still-Births).
		Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	
1	New Washermenpet.	...	...	...	...	12	10	284	303	24	22	...	...	320	335	655
2	Tondiarpet ...	...	...	1	...	29	37	200	187	4	3	...	...	234	227	461
3	Grace Garden ...	...	...	1	...	19	15	132	132	42	44	1	...	195	191	386
4	Sanjeevirayanpet ...	...	...	...	...	...	3	175	157	1	...	...	...	176	160	336
5	Mottai Garden ...	...	...	1	...	...	...	122	144	25	14	...	...	148	158	306
6	Narayanappa Naicken Garden ...	...	...	...	...	3	3	127	150	1	4	...	...	131	157	288
7	Singara Garden ...	...	...	...	...	1	3	162	164	1	2	...	...	164	169	333
8	Royapuram ...	...	...	4	3	27	39	131	156	9	10	...	...	171	208	379
9	Meenakshiammenpet.	...	...	...	...	11	10	223	224	39	43	...	...	273	277	550
10	Old Washermenpet ...	...	...	4	4	21	16	204	153	15	16	...	...	244	189	433
11	Seven Wells (North)	...	...	1	1	8	7	424	270	18	10	...	...	451	288	739
12	Ammen Koil (North)	...	...	1	3	16	7	99	104	18	12	...	...	134	126	260
13	Muthialpet ...	...	...	...	...	2	2	95	92	16	14	...	...	113	108	221
14	Harbour ...	1	1	2	...	3	7	115	123	93	91	...	...	214	222	436
15	Mannady ...	...	...	...	...	...	7	65	65	4	1	...	...	69	73	142
16	Ammen Koil (South)	...	...	3	1	9	9	55	61	21	18	...	...	88	89	177
17	Seven Wells (South).	...	...	3	3	8	5	93	86	18	18	1	...	123	112	235
18	Sowcarpet ...	...	...	...	...	...	...	68	51	2	5	...	...	70	56	126
19	Kothavalchavadi ...	...	...	...	...	...	2	91	78	24	23	1	...	116	103	219
20	Katchaleesvarar ...	...	...	1	1	11	6	128	129	12	9	...	...	152	145	297
21	Korukupet ...	...	...	...	...	...	2	215	255	6	3	...	...	221	260	481
22	Kumarasamy Nagar.	...	...	...	...	1	2	237	220	20	22	...	...	258	244	502

	Nagar	...	...	...	...	6	5	231	223	128	149	...	...	365	377	742
24	Basin Bridge	...	...	2	5	17	13	151	124	32	29	...	...	202	171	373
25	Kondithope	...	...	...	...	...	...	149	127	20	12	...	...	169	139	308
26	Peddu Naickenpet	...	...	...	...	1	2	194	212	5	1	...	...	200	215	415
27	Perumal Koil Garden.	...	...	...	...	...	...	138	141	1	...	...	...	139	141	280
28	Trevelyan Basin	...	...	...	...	...	...	88	89	...	...	...	...	88	89	177
29	Elephant Gate	...	...	...	...	...	1	88	76	...	...	...	...	80	77	165
30	Edapalayam	...	...	...	...	...	...	106	87	...	...	...	...	106	87	193
31	Perambur	...	...	...	1	5	2	171	146	...	1	...	...	176	150	326
32	Vyasarpady	...	...	...	...	6	18	231	262	3	5	1	...	241	285	526
33	Puliyanthope	...	...	...	...	5	3	226	213	60	58	...	...	291	274	565
34	Wadia Nagar	...	...	...	...	4	7	112	102	56	70	...	...	172	179	351
35	Thiru-Vi-Ka Nagar	...	...	4	1	13	19	162	139	15	7	...	...	194	166	360
36	Pattalam	...	...	...	...	14	4	68	80	19	12	...	...	101	96	197
37	Thattam Kulam	...	...	...	...	2	2	144	139	3	2	...	...	149	143	292
38	Dr. Besant Nagar	...	...	...	...	13	7	168	201	73	60	...	...	254	268	522
39	Choolai	...	...	...	...	2	5	133	140	...	...	...	...	135	145	280
40	Hospital Garden	...	...	1	1	9	8	122	130	11	13	...	...	143	152	295
41	Sembiam	...	...	2	5	6	8	167	167	10	15	...	...	185	195	380
42	Seru Vellore	...	...	2	5	6	3	96	95	4	7	...	...	108	110	218
43	Agaram	...	...	3	2	7	4	93	75	2	1	...	...	105	82	187
44	Nagamma Ammal Nagar	...	...	4	...	10	12	159	155	8	14	...	...	181	181	362
45	Ayanavaram	...	...	...	...	2	3	196	160	2	4	...	...	200	167	367
46	Nammalvarpat	...	...	1	1	12	12	194	169	10	5	...	...	217	187	404
47	Otteri	...	...	1	...	13	10	190	172	4	5	...	...	208	187	395
48	Kosnpet	...	...	...	...	2	3	150	174	3	3	...	...	155	180	335
49	Perumaipet	...	...	3	3	18	20	54	72	3	1	...	...	78	96	174
50	Purasawalkam	...	...	1	...	14	6	112	120	2	3	...	...	129	129	258

Deaths Registered among Principal Communities in each Division during the year 1960.

Division No.	Name of the New Divisions.	Aliens.		Anglo-Indians.		Indian Christians.		Hindus.		Muslims.		Others.		All Communities.		Total Deaths Registered (excluding Still-Births).
		Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	
51	Shenoy Nagar ...	...	...	1	...	2	3	155	168	7	6	...	...	165	177	342
52	Kilpauk ...	1	...	4	2	29	29	192	122	9	6	...	...	235	159	394
53	Chetpet ...	...	...	...	...	18	12	93	96	7	2	1	1	124	111	235
54	Nungambakkam ...	...	...	...	...	15	15	109	115	3	3	...	...	127	133	260
55	Sevagram ...	...	...	...	...	6	5	119	121	1	1	...	...	126	127	253
56	Thousand Lights (West) ...	2	3	1	...	19	21	100	119	12	14	...	...	134	157	291
57	Thousand Lights(East)	...	...	...	...	17	13	79	97	7	10	...	...	103	120	223
58	Pudupakkam ...	...	...	...	...	3	3	121	148	26	27	...	...	150	178	328
59	Amir Mahal ...	...	...	...	3	11	10	144	109	69	54	...	...	224	176	400
60	Royapettah ...	...	...	...	...	9	4	110	109	12	5	...	...	131	118	249
61	Gangadeswarar Koil.	...	...	1	...	2	6	88	88	1	2	...	...	92	96	188
62	Dr. Ambedkar Nagar.	...	...	6	6	16	28	109	95	21	16	...	...	152	145	297
63	Periamet ...	...	1	3	2	14	7	82	98	3	9	...	...	102	117	219
64	Park Town ...	...	...	...	...	27	11	616	357	27	14	...	...	670	382	1,052
65	Adikesavapuram ...	...	...	...	2	21	16	130	130	...	2	...	...	151	150	301
66	Chintadripet ...	...	...	...	...	3	1	117	95	9	10	...	...	129	106	235
67	Egmore ...	...	...	1	2	6	9	192	239	6	6	...	...	205	256	461
68	Pudupet ...	...	...	3	2	24	19	89	78	19	30	...	...	135	129	264
69	Komaleeswaranpet ...	...	...	1	...	6	3	115	92	3	9	...	...	125	104	229
70	Narasingapuram ...	...	...	...	...	3	3	119	99	6	13	...	...	128	115	243
71	Nehru Nagar ...	...	...	...	...	6	2	108	95	82	71	...	...	196	168	364
72	Thiruvatteeswaranpet.	...	...	...	...	1	...	107	78	68	54	...	...	176	132	308

73	Chepauk ...	...	...	...	...	4	2	102	132	10	13	...	...	116	147	263
74	Marina ...	...	...	...	...	...	...	147	182	2	...	...	...	149	182	331
75	Triplicane ...	...	...	...	...	...	...	108	87	3	2	...	...	111	89	200
76	Jam Bazaar ...	...	...	...	...	1	...	147	136	26	26	...	...	174	162	336
77	Mirsahibpet ...	...	...	1	...	3	5	81	86	107	114	...	...	192	205	397
78	Azad Nagar ...	...	...	...	...	7	1	200	170	32	31	1	...	240	202	442
79	Durgapuram ...	...	...	...	...	1	...	136	135	29	37	...	...	166	172	338
80	Krishnampet ...	...	...	...	...	2	1	139	150	33	34	...	...	174	185	359
81	Teynampet ...	1	...	...	...	4	5	108	122	5	3	...	...	118	130	248
82	Vivekanandapuram ...	1	...	...	...	2	10	113	84	2	2	...	...	118	96	214
83	Madava Perumal-puram ...	...	...	...	...	...	...	110	114	2	1	...	...	112	115	227
84	Karniswarapuram ...	...	...	...	...	2	6	186	163	26	14	1	...	215	183	398
85	Santhome ...	...	...	1	...	37	27	78	104	9	7	...	...	125	138	263
86	Mylapore ...	...	...	...	...	4	4	143	135	2	1	...	...	149	140	289
87	Bheemannapet ...	...	...	...	...	...	2	133	129	...	...	...	...	133	131	264
88	Alwarpet ...	...	...	...	...	4	1	136	160	1	2	...	...	141	163	304
89	Raja Annamalaipuram	...	...	...	...	16	18	172	185	3	3	1	1	192	207	399
90	Adyar ...	...	1	...	...	6	6	111	100	4	3	...	...	121	110	231
91	Aminjikarai ...	...	...	...	...	8	9	253	267	12	9	...	...	273	285	558
92	Vadapalani ...	...	...	1	1	9	9	203	211	14	9	...	...	227	230	457
93	Theagarayanagar ...	...	...	...	...	1	2	167	141	2	2	...	...	170	145	315
94	Sathyamoorthi Nagar.	...	...	...	...	4	7	202	193	2	7	...	...	208	207	415
95	Rajaji Nagar ...	...	...	...	...	1	...	160	154	...	...	...	...	161	154	315
96	Kamaraj Nagar ...	...	...	...	...	1	1	160	179	1	2	...	...	162	182	344
97	Saidapet (North) ...	...	...	...	...	3	3	145	140	1	...	...	...	149	143	292
98	Periapet ...	...	...	...	...	2	1	144	177	14	12	...	...	160	190	350
99	Guindy ...	...	...	...	2	9	8	162	156	11	9	...	...	182	175	357
100	Saidapet (South) ...	...	...	...	...	2	3	125	140	5	3	...	...	132	146	278
	Total ...	6	6	70	62	759	720	14,708	14,174	1,643	1,571	8	2	17,194	16,535	33,729

Deaths Registered according to Age and Sex in each Division during the year 1960.

Division No.	Name of the New Divisions.	Under 1 year,		1 to 5 years.		5 to 10 years.		10 to 15 years.		15 to 20 years.		20 to 30 years.		30 to 40 years.		40 to 50 years.		50 to 60 years.		60 and above.		Total.		Grand total.
		Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	
1	New Washermenpet.	104	93	88	102	18	16	7	2	3	4	13	21	9	17	20	22	19	11	39	47	320	335	655
2	Tondiarpet ...	70	59	72	83	12	11	3	...	2	4	9	14	11	9	7	9	11	10	37	28	234	227	461
3	Grace Garden ...	55	61	59	47	9	11	1	3	4	1	7	13	10	8	9	6	13	5	28	36	195	191	386
4	Sanjeeviranpet ...	57	46	44	44	3	6	...	2	2	4	3	11	9	4	10	3	13	8	35	32	176	160	336
5	Mottai Garden ...	45	49	47	39	7	8	...	3	1	...	3	5	3	4	17	6	9	13	16	31	148	158	306
6	Narayanappa Naicken Garden ...	38	48	34	47	4	6	2	3	3	7	3	7	7	4	7	5	7	7	26	23	131	157	288
7	Singara Garden ...	34	56	53	53	8	5	5	4	2	...	5	12	5	9	7	5	16	5	29	20	164	169	333
8	Royapuram ...	40	49	49	70	3	10	...	3	2	4	10	14	6	4	14	8	12	13	35	33	171	208	379
9	Meenakshiammenpet.	120	102	55	60	2	4	2	3	4	6	10	28	12	18	12	7	21	14	35	35	273	277	550
10	Old Washermenpet ...	68	44	76	63	8	5	3	...	3	2	9	10	7	5	14	8	11	10	45	42	244	189	433
11	Seven Wells (North)	53	40	43	52	16	12	8	10	15	14	55	39	70	30	70	31	79	19	42	41	451	288	739
12	Ammen Koil (North)	40	33	31	36	3	2	5	3	1	4	1	5	5	7	9	5	9	5	30	26	134	126	260
13	Muthialpet ...	22	27	30	25	5	6	3	...	...	2	4	5	1	4	8	8	9	9	31	22	113	108	221
14	Harbour ...	70	65	55	71	13	6	2	3	2	3	13	16	6	16	20	11	12	4	21	27	214	222	436
15	Mannady ...	19	19	8	14	1	2	1	...	...	1	2	5	2	1	3	7	11	9	22	15	69	73	142
16	Ammen Koil (South)	20	31	23	19	5	3	...	...	1	3	1	8	4	1	5	5	6	4	23	15	88	89	177
17	Seven Wells (South).	39	30	21	23	4	6	2	1	...	1	5	7	4	6	8	4	9	6	31	28	123	112	235
18	Sowcarpet ...	18	12	7	8	1	1	...	...	2	...	1	3	2	6	12	4	6	2	21	20	70	56	126
19	Kothavalchavadi ...	26	26	18	22	4	2	4	2	2	2	8	9	6	5	11	8	11	4	26	23	116	103	219
20	Katchaleeswarar ...	39	41	42	43	7	6	1	...	...	1	10	9	7	5	11	6	14	13	21	21	152	145	297
21	Korukupet ...	58	74	83	91	13	15	...	5	4	4	8	12	7	13	5	7	12	7	31	32	221	260	481
22	Kumarasamy Nagar.	98	63	56	67	11	10	4	1	3	3	6	5	11	16	18	11	21	22	30	46	258	244	502

23	Dr. Vijayaragavalu Nagar	131	96	100	59	14	18	2	2	2	4	17	22	21	23	12	16	18	6	48	120	365	377	742
24	Basin Bridge	60	46	47	50	8	3	5	1	1	4	11	14	7	12	22	11	16	7	25	23	202	171	373
25	Kondithope	63	37	32	32	10	5	4	2	4	2	6	6	...	4	5	7	16	13	29	31	169	139	308
26	Peddu Naickenpet	75	52	38	54	9	3	2	2	...	2	4	10	3	8	10	11	19	14	40	59	200	215	415
27	Perumal Koil Garden.	36	37	27	32	11	12	...	...	2	3	7	7	2	2	5	7	17	7	32	34	139	141	280
28	Trevelyan Basin	26	28	12	17	2	2	2	...	2	3	6	7	4	3	5	4	6	3	23	22	88	89	177
29	Elephant Gate	21	19	20	19	3	2	2	4	1	...	1	2	2	2	7	3	13	7	18	19	88	77	165
30	Edapalayam	24	17	23	27	5	4	2	...	1	1	6	2	4	6	4	2	7	5	30	23	106	87	193
31	Perambur	40	38	53	34	3	7	2	4	2	1	8	4	6	16	6	1	17	8	39	37	176	150	326
32	Vyasarpady	75	80	79	79	12	14	4	4	5	7	9	13	7	12	5	8	17	14	37	54	241	285	526
33	Puliyanthope	77	81	96	90	9	10	2	4	4	3	13	11	11	9	15	7	12	8	52	51	291	274	565
34	Wadia Nagar	46	47	44	46	7	9	7	...	7	4	7	10	4	13	6	6	13	14	31	30	172	179	351
35	Thiru-Vi-Ka Nagar	41	36	29	46	4	5	3	1	2	4	13	8	8	7	21	11	15	11	58	37	194	166	360
36	Pattalam	32	20	25	29	2	4	...	3	1	2	3	3	3	4	4	6	8	7	29	18	101	96	197
37	Thattan Kulam	30	37	47	50	2	8	1	3	4	2	12	9	7	7	9	5	11	5	26	17	149	143	292
38	Dr. Besant Nagar	65	78	77	72	15	13	2	5	2	6	10	11	10	10	14	11	20	9	39	53	254	268	522
39	Choolai	30	41	26	32	6	7	3	1	1	3	7	7	3	3	4	5	16	7	39	39	135	145	280
40	Hospital Garden	50	30	27	37	8	13	...	1	1	4	...	5	4	7	1	6	26	7	26	42	143	152	295
41	Sembiam	55	40	41	56	4	4	...	...	2	5	4	17	9	12	14	5	7	10	49	46	185	195	380
42	Seru Vellore	27	23	28	29	1	...	2	1	2	3	4	6	5	5	11	7	5	8	23	28	108	110	218
43	Agaram	32	18	16	25	4	5	1	3	...	...	7	4	6	5	8	4	15	2	16	16	105	82	187
44	Nagamma Ammai Nagar	49	46	42	46	10	3	1	2	2	4	5	14	8	9	12	7	15	9	37	41	181	181	362
45	Ayanavaram	52	44	48	32	6	12	1	3	3	2	13	11	11	5	7	11	21	7	38	40	200	167	367
46	Nammalvarpet	41	50	36	51	6	5	1	1	2	7	13	6	18	12	15	5	26	7	59	43	217	187	404
47	Otteri	54	53	56	55	10	6	1	4	3	6	5	7	11	10	10	6	19	4	39	36	208	187	395
48	Kosapet	50	43	38	45	4	10	1	3	3	5	5	9	6	4	10	6	14	11	24	44	155	180	335
49	Perumalpet	24	15	13	18	4	4	1	3	2	1	5	5	3	4	6	11	6	5	14	30	78	96	174
50	Purasawalkam	27	29	35	41	3	4	1	1	3	4	4	5	6	5	7	4	5	8	38	38	129	129	258

Deaths Registered according to Age and Sex in each Division during the year 1960.

Division No.	Name of the New Divisions.	Under 1 year.		1 to 5 years.		5 to 10 years.		10 to 15 years.		15 to 20 years.		20 to 30 years.		30 to 40 years.		40 to 50 years.		50 to 60 years.		60 and above.		Total.		Grand total.
		Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	
51	Shenoy Nagar ...	43	53	48	35	6	7	2	2	1	4	8	9	7	9	1	17	14	7	35	34	165	177	342
52	Kilpauk ...	26	26	23	19	3	5	...	2	3	3	18	13	32	14	37	12	31	20	62	45	235	159	394
53	Chetpet ...	35	26	31	44	4	4	1	...	1	...	8	5	8	3	14	3	11	7	11	19	124	111	235
54	Nungambakkam ...	26	40	25	36	5	8	1	...	...	1	5	2	7	5	12	6	6	1	40	33	127	133	260
55	Sevagram ...	33	33	31	29	5	8	3	1	...	3	...	10	6	6	5	2	10	5	29	31	126	127	253
56	Thousand Lights (West) ...	31	30	29	34	2	7	4	2	2	7	7	7	9	8	6	7	15	8	29	47	134	157	291
57	Thousand Lights (East)	29	36	26	39	4	1	2	1	3	3	10	8	3	7	7	6	5	6	14	13	103	120	223
58	Pudupakkam ...	43	48	33	53	3	2	4	1	...	7	7	7	11	14	16	8	9	8	24	30	150	178	328
59	Amir Mahal ...	48	48	15	33	7	2	3	1	7	3	17	13	22	15	33	13	36	18	36	30	224	176	400
60	Royapettah ...	38	32	27	19	3	8	1	4	5	2	9	3	5	3	6	10	12	11	25	26	131	118	249
61	Gangadeswarar Koil.	28	20	12	26	7	2	...	3	5	3	1	4	4	5	3	2	6	8	26	23	92	96	188
62	Dr. Ambedkar Nagar.	22	30	27	49	6	5	3	1	3	5	5	10	13	2	12	4	20	9	41	30	152	145	297
63	Periamet ...	29	31	20	26	3	3	3	1	1	2	4	4	2	5	5	10	11	10	24	25	102	117	219
64	Park Town ...	50	44	70	61	26	24	30	20	30	20	102	54	82	46	105	34	85	29	90	50	670	382	1,052
65	Adikesavapuram ...	32	26	42	51	5	5	1	2	2	1	4	13	11	6	12	10	15	6	27	30	151	150	301
66	Chintadripet ...	42	32	21	22	3	1	3	1	1	...	5	3	4	7	10	3	11	8	29	29	129	106	235
67	Egmore ...	132	88	12	25	2	2	2	1	1	11	6	36	6	31	8	23	10	14	26	25	205	256	461
68	Pudupet ...	30	30	28	36	5	7	1	2	2	1	8	4	9	5	4	10	18	10	30	24	135	129	264
69	Komaleeswaranpet ...	32	32	27	17	2	3	2	2	1	2	2	3	8	8	10	4	10	7	31	26	125	104	229
70	Narasingapuram ...	41	26	30	28	2	2	1	...	3	6	8	3	3	2	7	6	12	9	21	33	128	115	243
71	Nehru Nagar ...	53	51	33	44	8	4	4	4	1	2	11	4	14	5	12	6	17	10	43	38	196	168	364
72	Thiruvatteeswaranpet.	45	34	30	28	2	6	5	1	5	6	11	7	5	6	19	7	11	7	43	30	176	132	308

73	Chepauk ...	54	40	19	15	2	1	...	1	1	9	4	19	6	5	9	10	6	11	15	36	116	147	263
74	Marina ...	43	39	39	59	6	6	4	1	3	6	4	7	7	6	7	8	5	6	31	44	149	182	331
75	Triplicane ...	27	26	15	21	3	1	1	1	...	...	7	7	5	8	11	3	8	11	34	11	111	89	200
76	Jam Bazaar ...	43	40	39	41	5	7	3	5	5	5	4	5	9	5	8	5	15	6	43	43	174	162	336
77	Mirsahibpet ...	58	46	38	52	9	7	1	4	4	2	11	10	9	12	12	8	21	8	9	56	192	205	397
78	Azad Nagar ...	47	47	38	43	6	3	1	2	1	2	20	8	15	9	23	8	31	11	58	69	240	202	442
79	Durgapuram ...	43	55	58	57	8	3	3	1	4	1	6	11	6	5	6	6	11	7	21	26	166	172	338
80	Krishnampet ...	51	39	45	56	5	7	2	5	3	2	5	11	5	13	14	7	10	14	34	31	174	185	359
81	Teynampet ...	33	39	28	31	4	6	2	2	2	3	6	7	6	5	3	2	13	6	21	29	118	130	248
82	Vivekanandapuram ...	24	31	22	16	5	5	2	2	1	2	5	9	4	3	7	4	16	8	32	16	118	96	214
83	Madava Perumalpuram ...	37	27	27	29	4	3	...	2	2	...	7	7	5	7	6	2	8	10	16	28	112	115	227
84	Karniswarapuram ...	63	41	67	58	10	7	2	1	2	2	6	12	10	8	9	7	10	8	33	39	215	183	398
85	Santhome ...	33	27	32	37	5	4	4	...	2	3	2	4	3	3	6	5	15	6	26	49	125	138	263
86	Mylapore ...	37	39	38	47	6	6	2	1	2	...	3	3	6	10	13	2	9	4	33	28	149	140	289
87	Bheemannapet ...	32	30	37	39	7	4	1	1	3	2	5	5	5	2	9	7	11	17	23	24	133	131	264
88	Alwarpet ...	37	55	37	51	6	8	2	4	...	3	11	6	7	3	10	7	11	8	20	18	141	163	304
89	Raja Annamalaipuram	54	48	59	52	9	4	1	3	3	8	4	11	8	8	11	13	11	14	32	66	192	207	399
90	Adyar ...	27	26	26	26	8	5	1	1	3	2	6	6	9	7	6	11	10	11	25	15	121	110	231
91	Aminjikarai ...	67	72	72	75	16	16	3	1	2	6	10	19	15	8	14	9	13	13	61	66	273	285	558
92	Vadapalani ...	72	70	49	50	9	10	...	4	4	2	6	21	16	7	17	10	17	9	37	47	227	230	457
93	Theagarayanagar ...	28	32	41	50	9	12	...	...	1	1	4	6	9	6	6	4	12	5	60	29	170	145	315
94	Sathyamoorthi Nagar.	71	68	72	66	9	2	4	3	1	1	6	10	12	9	9	5	9	11	15	32	208	207	415
95	Rajaji Nagar ...	46	47	46	40	3	2	2	3	1	3	4	12	3	7	4	3	13	6	39	31	161	154	315
96	Kamaraj Nagar ...	46	31	31	69	6	9	4	2	3	2	7	7	6	8	5	6	9	9	45	39	162	182	344
97	Saidapet (North) ...	37	45	45	35	3	8	...	...	1	1	3	11	10	7	5	5	14	8	31	23	149	143	292
98	Periapet ...	40	39	49	55	4	10	1	...	...	1	8	8	10	9	8	10	11	8	29	50	160	190	350
99	Guindy ...	45	48	41	44	4	7	1	...	5	2	10	9	6	6	15	10	17	10	38	39	182	175	357
100	Saidapet (South) ...	42	29	23	38	5	8	...	1	3	1	4	9	7	8	13	6	13	10	22	36	132	146	278
	Total ...	4591	4241	3913	4288	628	632	229	209	259	326	825	975	883	817	1162	765	1455	896	3249	3386	17194	16535	33729

Deaths from Principal Causes Registered in the Divisions during the year 1960.

Division No.	Name of the New Divisions.	Plague.	Cholera.	Small-pox.	Measles.	Enteric Fever.	Kala-Azar.	Malaria.	Influenza.	Other Fevers.	Dysentry.	Diarrhoea.	Tuberculosis including T.B. of Lungs.	General Respiratory Diseases.	Injuries.	Maternal Deaths.	All other causes.	Total Deaths Registered (excluding Still-Births).
1	New Washermenpet.	...	...	57	...	...	...	...	...	91	74	72	5	149	...	3	204	655
2	Tondiarpet ...	...	...	17	...	...	...	...	...	56	60	42	3	147	...	2	134	461
3	Grace Garden ...	...	...	9	...	2	...	...	...	64	32	36	4	112	...	2	125	386
4	Sanjeevirayanpet ...	...	...	5	...	3	...	...	...	2	38	7	7	73	2	1	198	336
5	Mottai Garden ...	...	...	2	...	...	...	...	...	3	41	5	5	52	1	1	196	306
6	Narayanappa Naicken Garden ...	...	...	4	...	...	...	...	...	2	25	2	2	59	3	1	190	288
7	Singara Garden ...	...	...	2	...	...	...	...	...	46	25	34	2	139	...	1	84	333
8	Royapuram ...	...	...	14	...	2	...	...	...	36	23	26	6	110	...	1	161	379
9	Meenakshiammenpet.	...	...	5	...	1	...	...	...	68	26	41	14	167	...	9	219	550
10	Old Washermenpet ...	...	...	7	...	...	...	...	...	7	47	3	5	87	1	...	276	433
11	Seven Wells (North)	...	...	3	...	6	...	...	...	22	31	30	46	83	3	1	514	739
12	Ammen Koil (North)	...	...	3	...	3	...	...	...	6	16	5	2	66	...	3	156	260
13	Muthialpet ...	...	...	2	...	2	...	...	...	14	6	22	2	55	...	...	118	221
14	Harbour ...	...	...	37	...	1	...	...	...	14	30	31	7	98	...	2	216	436
15	Mannady ...	...	...	2	...	...	...	...	...	8	2	5	4	44	...	...	77	142
16	Ammen Koil (South)	...	...	3	...	1	...	...	...	5	10	8	4	38	...	2	106	177
17	Seven Wells (South).	...	...	6	...	1	...	...	...	2	9	16	5	54	...	...	142	235
18	Sowcarpet ...	...	...	7	...	...	...	...	...	4	1	8	2	32	...	1	71	126
19	Kothavalchavadi ...	...	...	6	...	2	...	...	...	9	8	21	5	63	...	1	104	219
20	Katchaleeswarar ...	...	...	8	...	3	...	...	...	11	19	12	3	80	2	1	158	297
21	Korukupet ..	...	...	7	...	1	...	...	...	3	75	7	5	79	4	1	299	481
22	Kumarasamy Nagar.	...	...	3	1	1	...	...	...	8	44	5	4	124	3	1	308	502

23	Dr. Vijayaragavalu Nagar	...	...	1	...	1	...	...	...	3	72	4	4	139	...	5	513	742
24	Basin Bridge	...	...	9	...	...	...	...	...	3	32	9	5	70	...	1	244	373
25	Kondithope	...	...	3	...	1	...	...	...	2	21	3	8	69	1	...	200	308
26	Peddu Naickenpet	...	...	12	...	...	...	...	...	9	26	7	8	83	...	...	270	415
27	Perumal Koil Garden.	...	...	3	...	1	...	...	...	9	12	18	6	79	3	1	148	280
28	Trevelyan Basin	...	...	2	...	2	...	...	...	8	12	10	6	55	1	...	81	177
29	Elephant Gate	...	...	1	...	...	...	...	...	2	7	13	4	40	...	...	98	165
30	Edapalayam	...	...	...	...	...	...	...	...	5	10	6	4	58	1	2	107	193
31	Perambur	...	...	11	1	3	...	...	...	20	20	19	4	90	...	...	158	326
32	Vyasarpady	...	...	8	...	2	...	...	...	13	57	31	4	134	3	...	274	526
33	Puliyanthope	...	...	8	...	...	...	...	...	10	64	5	8	86	...	2	382	565
34	Wadia Nagar	...	...	3	...	...	1	...	...	2	32	10	4	68	...	3	228	351
35	Thiru-Vi-Ka Nagar	...	...	...	...	...	...	...	...	2	33	7	7	61	1	2	247	360
36	Pattalam	...	...	5	...	2	...	...	...	38	26	18	2	43	1	3	59	197
37	Thattan Kulam	...	...	4	...	2	...	...	...	55	21	41	9	72	...	2	86	292
38	Dr. Besant Nagar	...	...	14	...	1	...	...	...	14	47	10	10	86	...	...	340	522
39	Choolai	...	...	6	...	2	...	...	...	52	15	27	4	62	...	3	109	280
40	Hospital Garden	...	...	...	...	...	...	...	...	58	20	39	4	64	...	...	110	295
41	Sembiam	...	...	1	...	...	...	...	...	2	33	25	5	53	1	1	259	380
42	Seru Vellore	...	...	...	...	1	...	...	...	11	14	22	3	36	...	2	129	218
43	Agaram	...	...	1	...	...	...	...	...	1	7	13	10	38	1	...	116	187
44	Nagamma Ammai Nagar	...	...	3	...	...	...	...	...	3	35	50	9	79	...	...	183	362
45	Ayanavaram	...	...	2	...	...	...	...	...	6	24	53	9	74	1	1	197	367
46	Nammalvarpet	...	...	...	...	1	...	...	...	2	25	70	12	119	...	1	174	404
47	Otteri	...	...	3	...	3	...	...	...	4	50	58	11	102	...	...	134	395
48	Kosapet	...	...	4	...	7	...	...	...	7	18	42	10	89	...	...	158	335
49	Perumalpet	...	...	1	...	1	...	...	...	1	9	14	6	47	...	2	93	174
50	Purasawalkam	...	...	2	...	1	...	...	...	2	25	32	6	82	...	1	107	258

Death from Principal causes registered in the Divisions during the year 1960.

Division No.	Name of the New Divisions.	Plague.	Cholera.	Small-pox.	Measles.	Enteric Fever.	Kala-Azar.	Malaria.	Influenza.	Other Fevers.	Dysentry.	Diarrhoea.	Tuberculosis including T.B. of Lungs.	General Respiratory Diseases.	Injuries.	Maternal Deaths.	All other causes.	Total Deaths Registered (excluding Still-Births).
51	Shenoy Nagar ...	...	...	4	...	1	...	...	...	3	20	37	6	91	...	...	180	342
52	Kilpauk ...	...	...	4	...	...	...	1	...	2	19	22	80	57	2	...	207	394
53	Chetpet ...	...	...	...	...	...	...	...	...	25	29	8	6	73	...	...	94	235
54	Nungambakkam ...	...	...	17	...	...	...	...	...	55	32	10	2	39	...	1	104	260
55	Sevagram ...	...	...	6	...	...	...	...	...	61	23	14	3	41	...	...	105	253
56	Thousand Lights (West) ...	...	...	1	...	1	...	...	...	44	25	15	7	55	...	...	143	291
57	Thousand Lights(East)	...	...	5	...	...	...	...	...	13	34	9	3	71	1	...	87	223
58	Pudupakkam ...	...	...	3	...	3	...	...	...	19	22	2	7	96	2	...	174	328
59	Amir Mahal ...	...	...	3	...	3	...	...	...	3	44	10	18	76	...	...	243	400
60	Royapettah ...	...	...	5	...	5	...	...	...	6	22	4	6	59	1	...	141	249
61	Gangadeswarar Koil.	...	...	1	...	...	...	...	...	3	4	19	4	55	...	...	102	188
62	Dr. Ambedkar Nagar.	...	...	2	...	...	...	...	...	6	22	19	3	74	...	...	171	297
63	Periamet ...	...	...	12	...	2	...	...	...	7	10	18	3	48	2	...	117	219
64	Park Town ...	...	...	7	...	6	1	1	...	30	12	33	83	129	15	...	735	1,052
65	Adikesavapuram ...	...	...	1	...	3	...	...	...	1	40	24	5	64	1	...	162	301
66	Chintadripet ...	...	...	...	...	...	...	...	...	2	23	19	7	53	1	1	129	235
67	Egmore ...	...	...	2	...	5	...	...	...	6	11	6	6	65	...	23	337	461
68	Pudupet ...	...	...	1	...	1	...	...	...	4	24	3	8	64	...	1	158	264
69	Komaleeswaranpet ...	...	...	2	...	...	...	...	...	3	15	2	6	66	...	...	135	229
70	Narasingapuram ...	...	...	1	...	...	...	...	...	2	14	20	7	59	...	1	139	243
71	Nehru Nagar ...	...	...	8	...	3	2	...	...	5	33	9	6	101	3	...	194	364
72	Thiruvatteeswaranpet.	...	...	7	...	1	1	...	...	5	24	10	4	65	1	...	190	308

73	Chepauk ...	...	...	9	...	5	1	...	...	4	9	7	3	52	1	5	167	263
74	Marina ...	...	...	6	...	3	...	...	...	6	37	20	4	86	1	1	167	331
75	Triplicane ...	...	...	8	...	4	...	...	...	8	14	10	2	31	...	...	123	200
76	Jam Bazaar ...	...	...	6	...	7	...	1	...	17	30	21	7	82	...	...	165	336
77	Mirsahibpet ...	...	...	7	...	2	...	1	...	24	28	23	13	109	...	2	188	397
78	Azad Nagar ...	...	...	1	...	2	...	...	...	6	33	54	10	101	...	2	233	442
79	Durgapuram ...	...	...	5	...	2	...	...	...	8	42	19	5	133	...	3	121	338
80	Krishnampet ...	...	...	3	...	2	...	...	...	8	27	17	4	121	1	1	175	359
81	Teynampet ...	...	...	4	...	...	1	...	...	8	12	18	3	55	...	...	147	248
82	Vivekanandapuram ...	...	...	...	...	1	...	...	...	3	22	7	2	62	...	...	117	214
83	Madava Perumalpuram ...	...	...	1	...	1	...	...	...	1	39	...	1	90	...	...	94	227
84	Karniswarapuram ...	...	...	2	...	2	...	...	...	4	65	...	3	137	...	...	185	398
85	Santhome ...	...	...	1	...	2	...	...	...	15	34	2	4	62	...	1	142	263
86	Mylapore ...	...	...	20	...	...	...	...	...	7	25	2	5	87	1	2	140	289
87	Bheemannapet ...	...	...	5	...	...	......	...	...	5	14	20	11	62	...	......	147	264
88	Alwarpet ...	...	...	2	...	...	...	...	...	20	36	33	3	81	1	...	128	304
89	Raja Annamalipuram	...	...	8	...	2	...	...	...	16	43	26	1	102	...	1	200	399
90	Adyar ...	...	...	...	...	...	...	...	...	...	19	19	2	70	1	2	118	231
91	Aminjikarai ...	...	...	1	...	...	...	...	...	4	58	49	8	137	...	...	301	558
92	Vadapalani ...	...	...	3	...	1	1	...	...	4	49	26	12	79	2	2	278	457
93	Theagarayanagar ...	...	...	3	...	2	...	...	...	6	44	13	3	71	2	...	171	315
94	Sathyamoorthi Nagar.	...	...	4	...	2	...	...	...	6	61	39	4	132	2	2	163	415
95	Rajaji Nagar ...	...	...	...	...	2	...	...	...	5	34	19	1	104	1	2	147	315
96	Kamaraj Nagar ...	...	...	...	...	...	...	...	...	9	37	7	3	66	2	...	220	344
97	Saidapet (North) ...	...	...	5	...	...	...	...	...	6	18	4	4	104	1	...	150	292
98	Periapet ...	...	...	7	...	1	...	...	...	...	38	8	4	118	...	...	174	350
99	Guindy ...	...	...	2	...	...	...	...	...	7	49	19	2	86	1	...	191	357
100	Saidapet (South) ...	...	...	...	...	...	...	...	...	4	9	5	2	78	...	...	180	278
	Total ...	...	...	521	2	137	8	4	...	1,341	2,837	1,894	730	7,988	79	119	18,069	33,729

Births, Deaths and Infant Deaths with rates by months in 1960 and 1959.

Months.	1960						1959					
	Births registered including still births.	Birth rate.	Deaths registered excluding still births.	Death rate.	Infant deaths.	Infant death rate.	Births registered excluding still births	Birth rate.	Deaths registered excluding still births.	Death rate.	Infant deaths.	Infant death rate.
January 1960	2,868	15.13	2,373	12.89	574	94.86	3,838	21.82	2,709	15.40	641	167.01
February 1960 ...	5,069	27.50	3,168	17.21	753	124.44	4,961	30.56	2,722	15.48	671	135.25
March 1960	4,649	25.26	2,765	15.02	636	105.10	4,739	26.95	2,752	15.65	745	157.20
April 1960	5,183	28.16	2,104	11.43	480	79.32	5,490	31.22	2.223	12.64	544	99.08
May 1960 ...	6,445	35.02	2,631	14.25	711	117.54	4,915	27.95	2,530	14.38	677	137.74
June 1960 ...	5,850	31.79	2,352	12.78	626	103.45	6,021	34.24	2,360	13.42	697	115.76
July 1960 ...	6,526	35.01	2,418	13.14	731	120.80	6,740	38.33	2,906	16.52	873	129.52
August 1960	6,828	37.10	2,775	15.08	820	135.51	5,597	31.83	3,081	17.52	923	164.90
September 1960 ...	6,126	33.29	2,441	13.26	689	113.86	6,257	35.58	2,758	15.68	691	110.43
October 1960	7,047	38.29	3,133	17,02	811	134.03	5,256	34.62	2,224	12.64	559	106.35
November 1960	6,608	35.91	3,114	16.92	822	135.84	5,917	33.65	2,965	16.86	848	143.34
December 1960 ...	9,412	51.15	4,455	24.21	1,179	194.84	10,424	59.28	4,285	24.36	1,193	114 44
Total ...	72,610	32.88	33,729	15.27	8,832	121.63	70,155	33.24	33,515	15.88	9,062	129.17

Births, Deaths and Infant Deaths with rates registered among principal communities during 1960 compared with 1959.

Community.	1960			1959		
	Total number of births registered excluding still births.	Total number of deaths registered excluding still births.	Infant Deaths registered.	Total number of Births registered excluding still births.	Total number of deaths registered excluding still births.	Infant deaths registered.
Aliens ...	24	12	2	28	7	...
Anglo-Indians ...	183	132	14	178	106	18
Indian Christians ...	3,370	1,479	333	3,339	1,500	313
Muslims ...	5,624	3,214	907	5,502	3,313	981
Hindus ...	63,405	28,882	7,576	61,092	28,573	7,747
Others ...	4	10	...	16	16	3
Total ...	72,610	33,729	8,832	70,155	33,515	9,062

Return of Infantile deaths among principal communities during 1960.

Community.	Under seven days		Seven days to under 1 month		One month to Six months		Six months to 1 year		Total.		Total of Males and Females.
	Males	Females	Males	Females	Males	Females	Males	Females	Males	Females	
Aliens ...	...	1	...	...	1	...	...	...	1	1	2
Anglo-Indians ...	1	...	...	1	1	2	6	3	8	6	14
Indian Christians ...	44	33	18	17	59	37	71	54	192	141	333
Muslims ...	82	73	49	40	197	183	145	138	473	434	907
Hindus ...	1,128	886	495	437	1117	1,050	1,177	1,286	3,917	3,659	7,576
Others ...	...	...	...	...	...	...	...	...	...	...	...
Total ...	1,255	993	562	495	1,375	1,272	1,399	1,481	4,591	42,41	8,832

Infant deaths from principal causes by age periods in 1960.

Age periods.	Cholera.		Small-pox.		Measles.		Diphtheria.		Enteric fever.		Malaria.		Other fevers.		Dysentery.		Diarrhoea.		Infantile debility and Malnutritions, including Premature births, etc.		Diseases of Respiratory system.		Convulsions.		Other causes.		Total Infant deaths.	
	Death.	Rate.	Death.	Rate.	Death.	Rate.	Death.	Rate.	Death.	Rate.	Death.	Rate.	Death.	Rate.	Death.	Rate.	Death.	Rate.	Death.	Rate.	Death.	Rate.	Death.	Rate.	Death.	Rate.	Death.	Rate.
Under one week.	...	...	...	...	...	...	...	...	...	...	...	...	14	0.62	2	0.08	12	0.53	1,878	83.5	149	6.6	4	0.17	189	8.40	2,248	25.44
One week and under one month.	...	...	9	0.85	...	...	...	...	...	...	...	...	14	1.32	9	0.85	42	3.97	687	64.99	165	15.61	18	17.02	113	10.69	1,057	11.98
One month and under six months.	...	...	59	2.22	...	...	3	0.11	...	...	...	...	126	4.76	159	6.00	310	11.71	97	3.66	1,074	40.57	70	2.64	749	28.29	2,647	29.97
Six months and under one year.	...	...	49	1.70	...	...	10	0.34	...	...	...	...	178	6.18	329	11.42	383	13.29	16	0.53	1,188	41.24	24	0.83	703	24.40	2,880	32.61
Total ...	...	...	117	1.32	...	...	13	0.14	...	...	...	...	332	3.75	499	5.64	747	8.45	2,678	30.33	2,576	29.20	116	1.32	1,754	19.85	8,832	100.00

Infant deaths from principal causes by months in 1960.

Months.	Cholera.	Small-pox.	Measles.	Diptheria.	Enteric Fever.	Malaria.	Other Fevers.	Dysentery.	Diarrhoea.	Infantile debility & Malformations including premature births.	Diseases of the respiratory system.	Convulsions.	Other causes.	Total Infant deaths registered during 1960.		Total.	Total Infant deaths registered in 1959.
														M	F		
January ...	...	10	...	1	...	...	29	45	48	141	177	6	117	296	278	574	641
February ...	...	8	...	2	...	...	35	45	54	250	203	4	152	394	359	753	671
March ...	...	14	...	1	...	...	44	32	39	220	174	10	102	311	325	636	745
April ...	...	10	...	...	...	...	31	34	40	129	163	11	62	232	248	480	544
May ...	...	8	...	2	...	...	30	38	64	218	219	15	117	374	337	711	677
June ...	...	10	...	1	...	...	36	35	59	159	207	6	113	322	304	626	697
July ...	...	21	...	...	...	...	27	45	77	198	199	8	156	383	348	731	873
August ...	...	3	...	1	...	...	22	54	78	185	230	11	236	405	415	820	923
September ...	...	6	...	2	...	...	15	38	57	225	206	17	123	370	319	689	691
October ...	...	11	...	2	...	...	19	37	73	210	258	6	195	433	378	811	559
November ...	...	9	...	...	...	...	14	40	76	261	247	10	165	435	387	822	848
December ...	...	7	...	1	...	...	30	56	82	482	293	12	216	636	543	1,179	1,193
Total ...	...	117	...	13	...	...	332	499	747	2,678	2,576	116	1,754	4,591	4,241	8,832	9,062

Statement of live births by age of mother and order of live births registered in order of confinement at live births during 1960

Age of mother at birth.	Order of confinement of Live Births.															Not stated	Total.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15 and above		
Under 15 years ...	92	11	...	4	...	...	...	...	...	...	...	...	...	...	...	2	109
15 to 20 years ...	7,450	2,674	673	185	36	6	4	2	...	...	...	...	...	...	...	...	11,030
20 to 25 years ...	5,708	7,255	5,363	2,550	1,100	318	87	20	5	5	1	1	2	...	...	31	22,446
25 to 30 years ...	1,560	3,100	4,722	4,983	3,795	2,269	1,063	431	198	34	12	1	1	...	...	34	22,203
30 to 35 years ...	323	647	1,229	1,616	2,198	2,021	1,514	904	478	187	80	22	13	2	1	11	11,246
35 to 40 years ...	54	148	245	430	597	714	839	674	478	261	170	59	23	11	2	10	4,715
40 to 45 years ...	8	14	25	46	56	71	123	118	91	77	31	25	10	3	2	11	711
45 years ...	...	1	1	10	29	3	6	13	13	1	6	4	1	...	...	3	91
46 years ...	...	...	...	1	...	...	1	1	1	1	...	1	...	...	...	2	8
47 years ...	...	...	...	...	...	...	...	2	...	1	...	...	...	...	...	...	3
48 years ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
49 years ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
50 years and above.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Not stated ...	2	2	3	3	4	3	8	1	4	...	...	...	...	...	...	18	48
Total ...	15,197	13,852	12,261	9,828	7,815	5,405	3,645	2,166	1,268	567	300	113	50	16	5	122	72,610

Deaths registered from principal causes wth rates in 1960 compared with the previous five years.

Year.	Plague.		Cholera.		Small-pox.		Measles.		Enteric Fevers.		Malaria.		Other Fevers.		Dysentery.		Diarrhoea.		Tubercle including T.B. of lungs.		General Respiratory diseases.		Injuries.		Maternal deaths.		All other causes.		Total deaths.	
	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.
1955 ...	...	...	...	...	37	0.02	...	...	182	0.11	75	0.05	3,191	1.93	2,788	1.69	2,392	1.45	442	0.27	8,142	4.93	497	0.30	161	0.10	16,357	9.91	34,264	20.76
1956 ...	...	...	...	...	68	0.04	...	...	143	0.08	33	0.02	3,022	1.77	2,533	1.49	2,883	1.69	396	0.23	7,691	4.51	495	0.29	153	0.09	16.510	9.69	33,927	19.90
1957 ...	...	...	414	0.24	428	0.24	2	0.001	187	0.10	18	0.01	2,520	1.43	2,640	1.50	2,545	1.45	615	0.35	8,604	4.89	523	0.30	150	0.09	18,137	10.31	36,783	20.92
1958 ...	...	...	63	0.034	1,389	0.76	3	0.001	165	0.09	14	0.007	3,728	2.5	2,868	1.58	2,210	1.21	629	0.34	8,174	4.50	129	0.07	145	0.07	17,371	9.57	36,888	23.34
1959 ...	...	...	64	0.03	517	0.24	1	0.001	108	0.05	8	0.003	1,015	0.48	2,983	1.41	1,902	0.90	672	0.31	8,415	3.98	79	0.03	140	0.06	17,690	8.38	33,515	15.88
Mean of the previous five years.	...	...	108	0.06	487	0.26	1	0.000	157	0.08	29	0.01	2,695	1.62	2,762	1.53	2,386	1.54	550	0.30	8,205	4.56	344	0.19	149	0.08	17,213	9.57	35,086	20.16
1960 ...	...	...	...	...	521	0.23	2	0.000	137	0.06	4	0.001	1,341	0.61	2,837	1.28	1,894	0.85	730	0.33	7,988	3.64	79	0.03	119	0.05	18,077	8.19	33,729	15.27

Vaccinations performed during each month in 1960.

Months.	Primary Vaccinations.						Re-vaccinations.					
	Number of persons vaccinated.			Results.			Number of persons Re-vaccinated.			Results.		
	Males.	Females	Total.	Success-ful.	Failure.	Absent.	Males.	Females	Total.	Success-ful.	Failure.	Absent.
January ...	1,504	1,465	2,969	2,933	...	36	6,053	6,842	12,895	474	9,797	2,624
February ...	3,471	3,129	6,600	6,600	...	...	24,539	24,080	48,619	1,536	36,912	10,171
March ...	3,492	3,422	6,914	6,914	...	...	50,971	50,583	101,554	6,611	75,552	19,391
April ...	2,799	2,560	5,359	5,358	...	1	30,370	27,745	58,115	1,780	43,836	12,499
May ...	1,817	1,784	3,601	3,601	...	...	14,821	14,493	29,314	864	21,585	6,865
June ...	2,135	1,984	4,119	4,119	...	...	10,634	11,135	21,769	688	15,990	5,091
July ...	2,523	2,431	4,954	4,942	12	...	14,820	15,562	30,382	935	23,553	5,894
August ...	2,304	2,187	4,491	4,489	...	2	13,478	12,090	25,568	792	19,094	5,682
September ...	1,965	1,922	3,887	3,887	...	...	11,485	12,070	23,555	778	18,065	4,712
October ...	2,068	1,936	4,004	4,004	...	...	10,878	11,862	22,740	850	16,905	4,985
November ...	1,590	1,595	3,185	3,185	...	...	8,779	7,966	16,745	573	12,533	3,639
December ...	2,334	2,233	4,567	4,567	...	...	12,656	13,643	26,299	576	19,957	5,766
Total ...	28,002	26,648	54,650	54,599	12	39	209,484	208,071	417,555	16,457	3,13,779	87,319

Particu'ars of Vaccinations Performed in each Division

Division No.	Name of the New Divisions.	Total number of persons vaccinated.			Primary		
					Total.		
		Males.	Females.	Total.	Males.	Females.	Total.
1	New Washermanpet ...	6,124	8,576	14,700	398	396	794
2	Tondiarpet ...	2,868	3,403	6,271	266	273	53
3	Grace Garden ...	3,596	4,371	7,967	356	344	70
4	Sanjeevirayanpet ...	1,964	1,941	3,905	263	234	49
5	Mottai Garden ...	1,465	1,678	3,143	154	143	29
6	Narayanappa Naicken Garden ...	897	1,089	1,986	171	202	37
7	Singara Garden ...	1,951	2,422	4,373	252	264	51
8	Royapuram ...	2,055	2,455	4,510	209	222	43
9	Meenakshiammanpet ...	1,362	1,505	2,867	156	128	28
10	Old Washermanpet ...	1,554	1,661	3,215	295	300	59
11	Seven Wells (North) ...	1,493	1,753	3,246	192	257	44
12	Ammen Koil (North) ...	2,137	1,860	3,997	200	182	38
13	Muthialpet ...	2,843	3,638	6,481	361	331	69
14	Harbour ...	5,037	4,964	10,001	419	391	81
15	Mannady ...	1,634	1,710	3,344	247	231	47
16	Ammen Koil (South) ...	2,270	1,789	4,059	228	228	45
17	Seven Wells (South) ...	1,227	805	2,032	266	287	55
18	Sowcarpet ...	3,511	3,137	6,648	221	183	40
19	Kothawalchavadi ...	4,691	2,486	7,177	250	210	46
20	Katchaleswarar ...	5,226	6,036	11,262	331	333	66
21	Korukupet ...	1,474	1,063	2,537	222	183	40
22	Kumarasamy Nagar ...	2,434	3,129	5,563	258	297	55
23	Dr. Vijayaraghavalu Nagar ...	2,295	2,499	4,794	338	295	63
24	Basin Bridge ...	1,654	1,948	3,602	221	217	43
25	Kondithope ...	1,359	1,596	2,955	260	280	54
26	Peddunaickenpet ...	2,937	2,639	5,576	345	366	71
27	Perumal Koil Garden ...	1,097	1,049	2,146	225	213	43
28	Trevelyan Basin ...	1,353	1,000	2,353	149	139	28
29	Elephant Gate ...	784	819	1,603	173	182	35
30	Edapalayam ...	2,038	2,258	4,296	221	249	47
31	Perambur ...	1,827	1,421	3,248	301	248	54
32	Vyasarpady ...	1,428	1,344	2,772	208	196	40
33	Pulianthope ...	1,847	2,040	3,887	359	356	71
34	Wadia Nagar ...	1,876	1,448	3,324	221	180	40
35	Thiru-vi-ka Nagar ...	1,100	1,231	2,331	242	253	49
36	Pattalam ...	2,342	2,491	4,833	188	148	33
37	Thattankulam ...	1,072	1,404	2,476	178	186	36
38	Dr. Besant Nagar ...	2,114	2,502	4,616	318	363	68
39	Choolai ...	1,052	1,638	2,690	192	171	36
40	Hospital Garden ...	2,175	2,941	5,116	274	239	51
41	Sembiam ...	1,570	1,819	3,389	325	322	64
42	Seru Vellore ...	1,422	1,719	3,141	183	187	37
43	Agaram ...	1,149	849	1,998	166	166	33
44	Nagamma Ammai Nagar ...	1,471	1,265	2,736	269	255	52
45	Ayanavaram ...	1,256	1,516	2,772	329	328	65
46	Nammalwarpet ...	1,177	1,096	2,273	292	273	56
47	Otteri ...	1,711	1,490	3,201	343	272	61
48	Kosapet ...	2,288	1,923	4,211	337	303	64
49	Perumalpet ...	3530	3,186	6,716	281	251	53
50	Purasawalkam ...	2,878	2,763	5,641	300	77	257

ring the year 1960.

ccination.							Re-vaccination.						Percentage of successful cases in which the results were known.	
Successful.							Total.			Result.				
Under one year.	One year and under five years	Five years and under ten years.	Ten years and above.	Total.	Unsuccessful.	Unknown.	Males.	Females.	Total.	Successful.	Failure.	Absent.	Primary.	Re-vaccination.
415	345	34	...	794	...	...	5,726	8,180	13,906	466	10,598	2,842	100.0	3.4
307	202	30	...	539	...	...	2,602	3,130	5,732	261	4,006	1,465	100.0	4.6
468	209	22	1	700	...	...	3,240	4,027	7,267	270	5,074	1,923	100.0	3.7
412	84	1	...	497	...	...	1,701	1,707	3,408	105	2,998	305	100.0	3.1
237	58	2	...	297	...	...	1,311	1,535	2,846	70	2,335	441	100.0	2.5
290	83	...	...	373	...	...	726	887	1,613	78	1,136	399	100.0	4.8
370	143	3	...	516	...	...	1,699	2,158	3,857	451	2,554	852	100.0	11.7
265	132	22	...	419	12	...	1,846	2,233	4,079	208	2,777	1,094	97.2	5.1
193	88	3	...	284	...	...	1,206	1,377	2,583	60	1,660	863	100.0	2.3
441	150	4	...	595	...	...	1,259	1,361	2,620	98	1,932	590	100.0	3.7
303	142	4	...	449	...	...	1,301	1,496	2,797	107	2,186	504	100.0	3.8
261	111	10	...	382	...	...	1,937	1,678	3,615	132	2,887	596	100.0	3.7
432	247	13	...	692	...	...	2,482	3,307	5,789	242	4,180	1,286	100.0	5.9
508	290	12	...	810	...	...	4,618	4,573	9,191	420	6,685	2,086	100.0	4.6
262	203	13	...	478	...	...	1,387	1,479	2,866	164	1,875	827	100.0	5.7
279	167	10	...	564	...	...	2,042	1,561	3,603	144	2,489	970	100.0	3.9
405	143	5	...	553	...	...	961	518	1,479	119	1,133	227	100.0	8.0
293	102	9	...	404	...	...	3,290	2,954	6,244	602	5,121	521	100.0	9.6
294	160	6	...	460	...	...	4,441	2,276	6,717	284	5,752	681	100.0	4.2
455	188	21	...	664	...	...	4,895	5,703	10,598	810	6,373	3,415	100.0	7.6
262	120	23	...	405	...	...	1,252	880	2,132	79	1,334	719	100.0	3.7
393	135	27	...	555	...	...	2,176	2,832	5,008	60	3,558	1,390	100.0	1.2
394	238	1	...	633	...	...	1,957	2,204	4,161	52	2,732	1,377	100.0	1.2
313	120	5	...	438	...	...	1,433	1,731	3,164	67	2,438	659	100.0	2.1
405	128	7	...	540	...	...	1,099	1,316	2,415	26	1,974	415	100.0	1.1
602	107	2	...	711	...	...	2,592	2,273	4,865	89	2,770	2,006	100.0	1.8
322	114	2	...	438	...	...	872	836	1,708	74	1,315	319	100.0	4.3
241	45	2	...	288	...	...	1,204	861	2,065	93	1,602	370	100.0	4.5
283	72	...	...	355	...	...	611	637	1,248	56	1,026	166	100.0	4.5
376	91	3	...	470	...	...	1,817	2,009	3,826	78	3,509	239	100.0	2.1
362	186	1	...	549	...	...	1,526	1,173	2,699	98	1,852	749	100.0	3.6
244	160	...	...	404	...	...	1,220	1,148	2,368	44	1,824	500	100.0	1.9
523	183	9	...	715	...	...	1,488	1,684	3,172	85	2,171	916	100.0	2.7
288	108	5	...	401	...	...	1,655	1,268	2,923	77	2,009	837	100.0	2.6
350	132	13	...	495	...	...	858	978	1,836	127	1,400	309	100.0	6.9
234	99	3	...	336	...	...	2,154	2,343	4,497	167	3,437	893	100.0	3.7
264	95	5	...	364	...	...	894	1,218	2,112	52	1,411	649	100.0	2.5
507	159	14	1	681	...	...	1,796	2,139	3,935	104	2,497	1,334	100.0	2.6
310	47	5	1	363	...	...	860	1,467	2,327	149	1,654	524	100.0	6.4
415	91	7	...	513	...	...	1,901	2,702	4,603	328	4,029	246	100.0	7.1
483	157	7	...	647	...	...	1,245	1,497	2,742	217	2,037	488	100.0	7.9
273	94	2	1	370	...	...	1,239	1,532	2,771	84	2,366	321	100.0	3.0
204	115	13	...	332	...	...	983	683	1,666	27	1,330	309	100.0	1.6
386	129	9	...	524	...	...	1,202	1,010	2,212	38	1,525	649	100.0	1.7
483	164	10	...	657	...	...	927	1,188	2,115	46	1,356	713	100.0	2.1
421	134	6	4	565	...	...	885	823	1,708	60	1,405	243	100.0	3.5
370	196	49	...	615	...	...	1,368	1,218	2,586	76	2,180	330	100.0	2.9
528	106	6	...	640	...	...	1,951	1,620	3,571	284	2,991	296	100.0	7.9
434	95	3	...	532	...	...	3,249	2,935	6,184	1,118	3,994	1,072	100.0	18.1
436	141	...	...	577	...	...	2,578	2,486	5,064	224	4,543	297	100.00	4.4

Particulars of Vaccinations Performed in each Division

Division No.	Name of the New Divisions.	Total number of persons vaccinated.			Primary		
					Total.		
		Males.	Females.	Total.	Males.	Females.	Total.
51	Shenoy Nagar ...	4,559	3,668	8,227	378	379	757
52	Kilpauk ...	3,113	2,733	5,846	332	286	618
53	Chetput ...	2,343	2,881	5,224	359	337	696
54	Nungambakkam ...	2,972	3,335	6,307	294	284	578
55	Sevagram ...	4,037	3,848	7,885	353	343	696
56	Thousand Lights (West) ...	2,368	2,725	5,093	320	323	643
57	Thousand Lights (East) ...	2,098	1,700	3,798	280	268	548
58	Pudupakkam ...	3,224	3,593	6,817	334	330	664
59	Amir Mahal ...	1,704	1,793	3,497	277	254	531
60	Royapettah ...	1,653	1,769	3,422	273	280	553
61	Gangadeeswarar Koil ...	2,989	3,132	6,121	250	257	507
62	Dr. Ambedkar Nagar ...	3,292	3,725	7,017	235	262	497
63	Periamet ...	6,161	5,452	11,613	317	283	600
64	Park Town ...	5,160	4,385	9,545	305	276	581
65	Adikesavapuram ...	3,120	2,561	5,681	285	262	547
66	Chintadripet ...	1,511	1,330	2,841	193	178	371
67	Egmore ...	3,579	4,309	7,888	267	265	532
68	Pudupet ...	2,834	2,520	5,354	273	261	534
69	Komaleswaranpet ...	1,386	1,481	2,867	209	206	415
70	Narasingapuram ...	2,347	2,343	4,690	289	248	537
71	Nehru Nagar ...	1,980	1,624	3,604	312	304	616
72	Thiruvotteeswaranpet ...	1,971	2,673	4,644	324	304	628
73	Chepauk ...	2,206	1,972	4,178	255	255	510
74	Marina ...	3,962	4,758	8,720	313	337	650
75	Triplicane ...	2,888	1,841	4,729	262	267	529
76	Jam Bazaar ...	1,957	1,783	3,740	364	308	672
77	Mirsahibpet ...	1,830	1,642	3,472	293	276	569
78	Azad Nagar ...	1,220	1,112	2,332	266	227	493
79	Durgapuram ...	2,862	1,196	4,058	268	201	469
80	Krishnampet ...	1,659	1,171	2,830	211	190	401
81	Teynampet ...	1,789	2,099	3,888	220	259	479
82	Vivekanandapuram ...	931	675	1,606	124	150	274
83	Madava Perumalpuram ...	793	669	1,462	193	164	357
84	Karniswarapuram ...	1,831	1,764	3,595	278	241	519
85	Santhome ...	2,318	2,588	4,906	317	301	618
86	Mylapore ...	2,881	2,701	5,582	328	276	604
87	Bheemannapet ...	1,221	1,331	2,552	174	165	339
88	Alwarpet ...	1,153	1,194	2,347	216	163	379
89	Raja Annamalaipuram ...	3,785	3,538	7,323	423	387	810
90	Adyar ...	3,202	2,199	5,401	273	245	518
91	Aminjikarai ...	2,916	3,594	6,510	466	470	936
92	Vadapalani ...	2,878	2,966	5,844	437	422	859
93	Theagarayanagar ...	1,948	1,826	3,774	265	295	560
94	Satyamurthi Nagar ...	2,325	2,150	4,475	361	307	668
95	Rajaji Nagar ...	2,340	2,068	4,408	311	307	618
96	Kamaraj Nagar ...	1,854	1,479	3,333	346	314	660
97	Saidapet (North) ...	3,610	3,424	7,034	380	312	692
98	Periapet ...	3,781	3,131	6,912	540	428	968
99	Guindy ...	3,001	1,567	4,568	334	301	635
100	Saidapet (South) ...	3,529	3,336	6,865	372	356	728
	Total ...	2,37,486	2,34,719	4,72,205	28,002	26,648	54,650

STATISTICS SUPPLEMENT No. 18.—contd.

luring the year 1960.

accination							Re-vaccination						Percentage of successful cases in which the results were known.	
Successful							Total			Results				
Under one year.	One year and under five years.	Five years and under ten years.	Ten years and above.	Total.	Unsuccessful.	Unknown.	Males.	Females.	Total.	Successful.	Failure.	Absent.	Primary.	Re-vaccination.
532	219	6	...	757	...	...	4,181	3,289	7,470	203	5,492	1,775	100.0	2.7
445	168	5	...	618	...	...	2,781	2,447	5,228	128	4,244	856	100.0	2.4
457	229	10	...	696	...	...	1,984	2,544	4,528	161	3,105	1,262	100.0	3.6
359	207	12	...	578	...	...	2,678	3,051	5,729	204	4,377	1,148	100.0	3.6
391	284	21	...	696	...	...	3,684	3,505	7,189	202	5,366	1,622	100.0	2.8
466	165	12	...	643	...	...	2,048	2,402	4,450	165	3,399	886	100.0	3.7
376	164	8	...	548	...	...	1,818	1,432	3,250	76	2,346	828	100.0	2.3
414	212	38	...	664	...	...	2,890	3,263	6,153	187	4,430	1,536	100.0	3.0
368	155	7	1	531	...	...	1,427	1,539	2,966	69	2,319	578	100.0	2.3
479	71	3	...	553	...	...	1,380	1,489	2,869	71	1,987	811	100.0	2.5
421	80	4	2	507	...	...	2,739	2,875	5,614	316	4,668	630	100.0	5.6
357	132	8	...	497	...	...	3,057	3,463	6,520	348	3,645	2,527	100.0	5.3
470	124	6	...	600	...	...	5,844	5,169	11,013	194	8,092	2,727	100.0	1.8
421	151	9	...	581	...	...	4,855	4,109	8,964	245	7,890	829	100.0	2.7
448	95	4	...	547	...	...	2,835	2,299	5,134	181	4,407	546	100.0	3.5
295	75	1	...	371	...	...	1,318	1,152	2,470	116	2,066	288	100.0	4.7
403	128	1	...	532	...	...	3,312	4,044	7,356	99	6,302	955	100.0	1.3
426	108	...	...	534	...	...	2,561	2,259	4,820	85	3,830	905	100.0	1.8
314	101	...	...	415	...	...	1,177	1,275	2,452	55	1,977	420	100.0	2.2
428	106	3	...	537	...	...	2,058	2,095	4,153	79	3,352	722	100.0	1.9
428	183	5	...	616	...	...	1,668	1,320	2,998	75	2,167	746	100.0	2.5
436	186	6	...	628	...	...	1,647	2,369	4,016	94	3,080	842	100.0	2.3
359	145	5	1	510	...	...	1,951	1,717	3,668	91	2,655	922	100.0	2.5
383	243	24	...	650	...	...	3,649	4,421	8,070	211	5,174	2,685	100.0	2.6
393	133	3	...	529	...	...	2,626	1,574	4,200	89	2,896	1,215	100.0	2.1
500	167	5	...	672	...	...	1,593	1,475	3,068	98	2,319	651	100.0	3.2
385	183	1	...	569	...	...	1,537	1,366	2,903	96	2,324	483	100.0	3.3
319	171	3	...	493	...	...	954	885	1,839	76	1,549	214	100.0	4.1
262	200	7	...	469	...	...	2,594	995	3,589	182	3,051	356	100.0	5.1
237	147	17	...	401	...	...	1,448	981	2,429	100	2,065	264	100.0	4.1
323	149	7	...	479	...	...	1,569	1,840	3,409	119	2,820	470	100.0	3.5
186	82	6	...	274	...	...	807	525	1,332	28	908	196	100.0	2.1
272	81	4	...	357	...	...	600	505	1,105	31	877	197	100.0	2.8
426	90	3	...	519	...	...	1,553	1,553	3,076	79	2,510	487	100.0	2.6
432	170	14	2	618	...	...	2,001	2,287	4,288	140	3,806	342	100.0	3.3
424	165	12	...	601	...	3	2,553	2,425	4,978	162	4,494	322	99.5	3.3
218	102	4	...	324	...	15	1,047	1,166	2,213	42	1,373	798	95.5	1.9
240	113	5	...	358	...	21	937	1,031	1,968	38	1,423	507	94.4	1.9
537	256	16	1	810	...	...	3,362	3,151	6,513	149	4,398	1,966	100.0	2.3
349	168	1	...	518	...	...	2,929	1,954	4,883	152	3,601	1,130	100.0	3.1
624	302	9	1	936	...	...	2,450	3,124	5,574	187	4,295	1,092	100.0	3.4
535	307	17	...	859	...	...	2,441	2,544	4,985	301	3,917	767	100.0	4.0
304	240	16	...	560	...	...	1,683	1,531	3,214	194	2,383	637	100.0	6.1
372	295	1	...	668	...	...	1,964	1,843	3,807	135	2,794	878	100.0	3.5
412	204	2	...	618	...	...	2,029	1,761	3,790	121	2,808	861	100.0	3.2
385	261	14	...	660	...	...	1,508	1,165	2,673	130	2,184	359	100.0	4.9
510	174	8	...	692	...	...	3,230	3,112	6,342	353	4,663	1,326	100.0	5.6
684	249	35	...	968	...	...	3,241	2,703	5,944	309	4,215	1,420	100.0	5.2
484	141	10	...	635	...	...	2,667	1,266	3,933	74	3,558	301	100.0	1.9
480	217	29	2	728	...	...	3,157	2,980	6,137	247	4,298	1,592	100.0	4.0
33,165	15,506	910	18	54,599	12	39	2,09,484	2,08,071	4,17,555	16,457	3,13,779	87,319	99.9	3.9

National Malaria Eradication Programme.

Consolidated Data for Routine Anopheles Adult Collection for the year 1960.

	January		February		March		April		May.		June.		July.		Aug.		Sep.		Oct.		Nov.		Dec.		Total.	
	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.
1. Human and mixed dwelling—																										
Time spent—Man Hours	31	30	18	00	31	30	28	30	19	30	36	00	38	30	31	30	36	00	37	30	29	30	27	00	365	00
Numbers—																										
A. Culicifacies		...		...		...		...		...		...		...		...		...		...		...		...		...
A. Stephensi		...		1		...		...		...		...		...		...		...		...		4		...		5
All species including vectors ...		117		91		120		148		50		107		132		29		72		152		120		99		1,237
Per Man Hour—																										
A. Culicifacies		...		...		...		...		...		...		...		...		...		...		...		...		...
A. Stephensi		...		0.056		...		...		...		...		...		...		...		...		0.14		...		0.0137
All species including vectors ...		3.37		5.056		2.93		5.194		2.50		2.97		2.43		0.92		2.00		4.053		4.068		2.667		3.389
2. Cattled Shed—																										
Time spent—Man hour	10	30	6	00	10	30	9	20	6	30	12	00	13	00	10	30	12	00	12	30	10	00	9	00	121	50
Numbers—																										
A. Culicifacies		...		...		...		...		...		...		...		...		...		...		...		...		...
A. Stephensi		1		...		1		...		...		...		...		2		1		1		...		2		8
All species including vectors ...		81		82		101		103		36		44		68		13		33		66		51		39		717
Per man hours—																										
A. Culicifacies		...		...		...		...		...		...		...		...		...		...		...		...		...
A. Stephensi		0.09		...		0.095		...		...		...		...		0.19		0.83		0.08		...		0.22		0.065
All species including vectors ...		7.71		13.66		9.62		11.04		5.50		3.67		5.23		1.238		2.75		5.28		5.10		4.33		5.885

Statement showing the number of cases and contacts admitted and treated in the I.D. Hospital, Madras-21 for the period from 1-1-1960 to 31-12-60.

PARTICULARS.	Small-pox.	Chicken pox.	Measles.	Cholera.	Gastro Enteritis or Chronic Enteritis.	Typhoid.	Mumps	Other diseases.	Con-tacts.	Total
No. remained in the Hospital on 31-12-59 (Mid-night)	96	48	6	...	4	...	4	6	47	211
No. of cases admitted from 1-1-60 to 31-12-60—										
City ...	2,177	3,601	1,107	...	515	...	252	650	2,670	10,972
Mofussil ...	471	348	73	...	99	...	29	81	...	1,101
Total No. of cases treated from 1-1-60 to 31-12-60.	2,744	3,997	1,186	...	618	...	285	737	2,717	12,284
Total No. of cases discharged ...	2,132	3,945	1,165	...	599	...	281	629	2,667	11,418
Total number died ...	479	2	2	...	19	...	...	89	...	591
No. remained on 31-12-60 ...	133	50	19	...	...	...	4	19	50	275
Mortality rate ...	17.46%	...	...	...	3.07%	...	...	12.07%	...	4.81%

Comparative Statement of the Out-turn of Work in Dispensaries during 1959–1960.

Serial No.	Division No.	Year of opening.	Names of the Dispensaries.	Location.	Total Attendance.		New Cases.		Minor Operation	System of Treatment.
					1959	1960	1959	1960		
1	2	1924	Royapuram ...	2/87, Suryanarayana Chetty Street, Royapuram.	76,128	71,242	39,290	36,854	360	Allopathic.
2	3	1952	Palmyrah Yard ...	Kalmandapam Road, Royapuram.	56,815	68,775	32,825	39,786	17	Do.
3	3	1945	Royapuram Siddah ...	109, Adam Sahib Street, Royapuram.	36,859	70,364	20,173	43,548	...	Siddha.
4	4	1957	Sanjeevarayanpet ...	21/22, Kappal Polu Chetty Street, Washermanpet.	58,633	59,682	26,826	27,774	8	Allopathic.
5	11	1956	Seven Wells ...	1/50, Saint Xavier Street, Seven Wells.	88,797	83,568	40,441	39,980	128	Do.
6	14	1929	Harbour ...	6/7, Adam Street, Madras-1 ...	61,940	59,213	32,917	32,776	32	Do.
7	15	1955	Muthialpet ...	Geils Street, Muthialpet ...	1,00,650	80,166	44,459	40,695	20	Do.
8	19	1923	Mofuskhan Garden ...	55, Thatha Muthiappan Street, Madras-1.	81,390	69,822	40,926	36,408	263	Do.
9	20	1938	Mannady ...	47, Linghi Chetty Street, Madras-1.	83,342	43,737	16,166	20,594	43	Do.
10	23	1913	Washermanpet ...	85, Thiruvothiyur High Road, Washermanpet.	1,27,806	89,846	52,352	51,641	10	Do.
11	25	1923	Mint ...	244, Mint Street, Madras-1. ...	81,120	86,506	42,276	46,509	24	Do.
12	25	1957	Basin Bridge ...	51, Basin Bridge Road, Madras. ...	49,238	78,391	26,474	39,510	17	Do.
13	26	1919	Trevelyn Basin ...	17, Basin Water Works Street, Madras.	71,448	61,170	39,548	31,967	31	Do.
14	31	1928	Perambur ...	55, Madhavaram High Road, Perambur.	2,34,238	71,210	64,414	41,041	192	Do.
15	32	1929	Vyasarpady ...	22, Gantz Road, Vyasarpady. ...	77,731	65,821	39,585	33,671	...	Do.
16	33	1930	Pulianthope ...	13, Pulianthope High Road. ...	101,497	40,239	50,535	8,697	63	Allopathic and Venereal Clinic
17	35	1958	Otteri (Perambur Barracks).	Strahans Road, Ottery. ...	67,446	95,039	37,751	54,705	39	Allopathic.
18	35	1931	Ottery Siddha ...	1/B, Bashiam Reddy 1st Street, Madras-12.	1,05,471	79,179	53,658	43,539	58	Siddha.
19	39	1931	Choolai Siddha ...	Alathur Subramania Achari Street, Choolai.	1,12,445	1,09,616	60,794	69,513	59	Do.

20	40	1899	Baliah Naidu	Rotlers Street, Vepery	1,86,838	1,52,461	1,08,608	97,520	1,850	Allopathic.
21	42	1946	Sembiam	171, Paper Mills Road, Perambur.	73,749	60,275	44,251	30,355	246	Do.
22	44	1948	Ayanavaram	127, Konnoor High Road, Ayanavaram.	91,805	91,805	52,541	52,541	44	Do.
23	46	1960 (New)	Nammalwarpet (opened on 3-9-60).	21-A, Subbaroya Chetty 2nd Street, Nammalwarpet.	...	29,614	...	13,895	8	Do.
24	48	1929	Kosapet	7/1, Chellappa Mudali Street, Kosapet.	48,525	37,334	28,880	22,545	69	Do.
25	51	1956	Aminjikarai	171, Poonamallee High Road, Aminjikarai.	55,332	61,735	35,743	34,266	314	Do.
26	53	1959	Chetput	24, McNichols Road, Chetput	12,503	58,147	6,024	38,152	96	Do.
27	55	1923	Nungambakkam	15, Noor Veeraswamy Iyer Street, Nungambakkam.	50,757	70,225	30,009	44,082	112	Do.
28	56	1930	Thousand Lights	Model School Street, Thousand Lights.	18,995	81,616	14,609	41,225	878	Ayurvedic.
29	59	1924	Pudupakkam	368, Pycrofts Road, Madras-14	15,983	60,561	28,790	36,407	146	Allopathic.
30	61	1919	Kilpauk	6, Gangadhareeswarar Koil Street, Purasawalkam.	94,709	84,422	49,080	47,603	582	Do.
31	65	1909	Chintadripet	2/61, Arunachala Naicken Street, Chintadripet.	1,06,343	1,09,522	50,904	46,252	158	Do.
32	67	1923	Egmore	34, Gengu Reddi Street, Egmore	71,056	60,950	43,191	38,401	8	Do.
33	69	1939	Pudupet	83, Harris Road, Mount Road	78,865	44,649	40,047	20,071	73	Do.
34	71	1932	Thiruvatteswaranpet	102, Tayer Sahib Street, Madras-2.	95,263	92,180	42,339	41,252	234	Unani.
35	72	1955	Chepauk	8, Khana Bagh Street, Triplicane	1,13,542	97,193	56,153	51,270	...	Allopathic.
36	75	1918	Triplicane	25, Pycrofts Road, Triplicane	72,318	69,643	39,549	35,800	26	Do.
37	77	1956	Zam Bazaar	21, Gazette Begam Street, Madras-14	14,586	78,401	36,049	31,855	14	Do.
38	80	1938	Krishnampet	25, Dr. Natesan Road, Madras-5	76,119	65,257	34,231	28,180	369	Do.
39	84	1959	Mylapore (North)	8, Karneswarar Pagoda Street, Mylapore.	36,907	53,595	16,610	22,783	97	Do.
40	85	1924	Mylapore (South)	101, Kutchery Road, Mylapore	79,334	64,074	32,022	27,941	87	Do.
41	86	1927	Teynampet	2/104, Mount Road, Madras-18	79,677	65,179	25,089	37,320	46	Do.
42	89	1948	Adayar	13, Greenways Road, Adayar	47,700	47,219	28,156	24,424	347	Do.
43	92	1948	Kodambakkam	107, Arcot Road, Kodambakkam	34,623	33,763	27,173	22,980	6	Do.
44	93	1956	T. Nagar (North)	4, Dr. Sadasivam Road, T. Nagar.	40,507	43,451	21,045	22,950	65	Do.
45	94	1922	T. Nagar (South)	3, Sivagnanam Road, T. Nagar	80,341	28,716	42,189	18,014	40	Do.
46	97	1956	Saidapet	51, Sadayappa Mudali Street, Saidapet.	31,298	31,952	16,955	17,343	7	Do.
47	99	1957	Guindy	1-A, Strahans Road, Maduvangarai, Guindy.	33,736	33,192	9,523	10,190	...	Do.

MEDICAL INSPECTION

Serial No.	Defective	Boys								Girls							
		Entrants			Regulars.			Total No. of entrants and regulars		Entrants			Regulars			Total No. of entrants and regulars	
		No. Defective	Percentage		No defective.	Percentage		No. defective	Percentage	No. defective	Percentage		No. defective	Percentage		No. defective	Percentage
			1960	1959		1960	1959				1960	1959		1960	1959		
1	Malnutrition ...	268	7.11	16.0061	512	8.03	11.1631	780	7.72	440	12.47	15.2190	820	16.73	16.7377	1260	25.37
2	Dirty Head and Body and Nails.	44	1.43	3.5245	101	1.64	2.6738	145	1.46	18	.509	0.4343	19	0.389	0.3535	37	0.764
3	Teeth and mouth ...	300	7.50	14.9231	751	10.59	14.4055	1050	10.60	475	13.46	9.7431	800	16.33	11.2833	1275	25.85
4	Nose and throat ...	100	3.68	4.3119	289.	4.71	4.4856	389	3.92	370	10.46	7.0053	527	10.75	7.4081	897	18.50
5	Eye diseases ...	75	3.01	2.5833	189	3.08	3.0057	264	2.67	200	5.65	4.2673	321	6.55	4.5247	521	10.50
6	Vision ...	10	0.07	1.4998	80	1.29	2.0748	90	.908	12	.339	0.3965	45	.916	0.6724	57	1.066
7	Ear diseases ...	8	.239	0.4499	10	.164	0.2337	18	.181	21	.582	0.6080	28	.571	0.4217	49	.986
8	Hearing ...	3	.079	6.1874	2	.032	0.0876	5	.041	1	.028	...	8	.163	0.1708	9	.181
9	Speech ...	...	...	...	...	...	0.0922	...	...	...	...	0.1858	...	...	0.2266	...	...
10	Circulatory system ...	20	.531	1.4248	100	1.64	2.1624	120	1.31	85	2.40	1.7384	95	1.93	1.3901	180	3.822
11	Tuberculosis ...	...	...	0.0292	...	...	...	...	...	...	...	0.2666	...	...	0.2291	...	...
12	Respiratory system ...	4	.108	...	8	.032	0.0478	12	.131	45	1.27	1.7107	75	1.53	1.0713	120	2.411
13	Abdominal system ...	3	.008	...	2	.032	0.6438	5	.051	5	.141	0.1135	6	.122	0.2266	11	.241
14	Bones and joints ...	100	2.65	4.3757	289	4.69	4.5148	389	3.92	70	.191	1.5820	65	1.326	0.7755	135	2.716
15	Nervous and psychic system.	1	.025	0.1384	2	.032	...	3	.031	4	.113	0.1332	3	.061	0.0569	7	.141
16	Infectious and contagious diseases.	200	5.31	11.1361	321	5.23	5.9686	521	.521	289	8.173	6.9487	375	7.653	6.6332	664	13.36
17	Other diseases and defects.	56	.149	3.2995	128	2.08	2.3232	184	1.85	96	2.712	2.7192	208	4.244	2.4261	304	6.11
18	Vaccination ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	Deformities ...	3	.079	00.438	20	.328	0.6080	23	.232	22	.622	0.6080	31	.632	0.6080	53	1.06

MEDICAL INSPECTION

Groups	No. on Roll		Average Daily Attendance		Number Exa-mined		Number Defec-tive		Percentage	
	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
Entrants ...	4,020	4,012	4,002	3,962	3,768	3,536	1,628	2,007	50.21	56.67
Regulars ...	6,872	6,416	6,672	5,916	6,134	4,900	3,240	2,963	52.84	60.47
Total ...	10,892	10,428	10,674	9,878	9,902	8,436	4,868	4,970	49.06	58.92

TREATMENT TABLE

Sex	Number treated at school	Number sent to Corporation Dispensaries	Number referred to Government Hospitals	Number referred to Government Ophthalmic Hospitals	Number referred to Government Tuberculosis Hospitals	Number of parents met	Number of revisits paid to schools	Number of re-examination of school children.
Boys ...	3,890	350	Nil	400	Nil	125	40	3,523
Girls ...	3,126	330	Nil	800	Nil	253	70	1,472
Total ...	7,016	680	Nil	1,200	Nil	378	110	4,995

Height and Weight Table

Age	Average height in Inches		Average Weight in Pounds		Quinquennial Average Height In inches		Quinquennial Average weight in Pounds	
	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
6	37.542	39.125	32.078	31.131	29.845	39.672	31.101	33.408
7	39.542	40.405	34.795	35.001	40.218	41.845	35.107	35.701
8	41.321	42.062	37.018	38.941	41.357	43.122	35.364	37.122
9	43.854	44.801	41.205	41.112	45.125	45.542	41.281	41.094
10	45.543	47.611	44.212	46.819	46.912	48.582	45.706	45.112
11	47.818	50.332	46.541	52.875	48.527	49.512	49.812	49.218
12	49.134	51.133	51.145	55.840	50.121	51.945	51.818	52.446
13	51.846	52.118	52.801	60.170	52.431	53.806	55.145	58.121
14	52.113	56.181	57.148	68.135	54.231	55.821	60.628	63.411
15	54.314	57.812	64.135	79.314	56.814	57.575	66.145	70.012
16	55.135	61.421	63.212	89.112	57.342	59.135	70.141	79.491
17	56.131	62.158	69.128	90.482	58.634	62.135	78.531	84.247
18	60.122	...	76.131	...	60.845	...	83.652	...

STATEMENT No. I.

Nature of samples	1960			1955		1956		1957		1958		1959	
	Number of samples analysed.	Number of adulterated samples.	Percentage of adulterated samples.	Number of samples analysed.	Percentage of adulterated samples.	Number of samples analysed.	Percentage of adulterated samples.	Number of samples analysed.	Percentage of adulterated samples.	Number of samples analysed.	Percentage of adulterated samples.	Number of samples analysed.	Percentage of adulterated samples.
Milk ...	4,642	2,005	43.2	3,002	50.1	3,251	42.1	3,554	44.5	4,597	41.6	4,496	42.2
Butter ...	583	96	16.5	498	31.1	432	24.8	497	18.9	555	17.1	567	16.2
Ghee ...	892	77	8.6	742	24.0	627	10.4	725	5.0	918	5.3	854	7.7
Gingelly Oil ...	1,143	99	8.7	343	20.1	395	21.5	751	30.8	1,319	14.7	1,140	9.3
Groundnut Oil ...	143	24	16.8	13	15.4	39	2.6	73	12.3	154	10.4	109	4.6
Cocoanut Oil ...	385	10	2.6	154	7.1	139	1.4	101	...	209	5 3	273	2.9
Coffee Powder ...	286	22	7.7	138	47.8	187	24.6	245	10.6	322	11.8	452	8.0
Tea ...	102	6	5.9	23	...	77	16.9	98	2.0	73	15.1	63	7.9
Ghee substitutes.	4	1	25.0	9	33.3	4	...	12	16.7	2	100.0	3	33.3
Other articles ...	197	66	33.5	108	55.6	119	28.6	134	22.4	153	21.6	166	26.8
Total ...	8,377	2,406	28.7	5,030	40.7	5,270	32.7	6,190	32.5	8,302	28.5	8,123	27.8

Nature of samples	Adulterated samples among the samples analysed in 1960						Adulterated samples of the previous years pending disposal on 1—1—1960.						Total number of adulterated samples dealt with during 1960						Total fines imposed in 1960.	Average fine per conviction in 1960.	Number of conviction in 1959.	Total fines disposed in 1959.	Average fine per conviction in 1959.
	Number of samples.	Number of convictions.	Number of articles seized and forfeited or destroyed without prosecution.	Number acquitted, dismissed, warned, admonished or withdrawn.	Number not prosecuted.	Number pending disposal on 31st December 1960.	Number of samples.	Number of convictions.	Number of articles seized and forfeited or destroyed without prosecution.	Number acquitted, dismissed, warned, admonished or withdrawn.	Number not prosecuted.	Number pending disposal on 31st December, 1960 .	Number of samples.	Number of convictions.	Number of articles seized and forfeited destroyed without prosecution.	Number acquitted, dismissed, warned, admonished or withdrawn.	Number not prosecuted.	Number pending disposal on 31st December 1960.					
																			Rs.			Rs.	
Milk ...	2005	478	...	11	99	1417	2870	440	...	31	...	2399	4875	918	...	42	99	3816	43,500	47	1351	61,635	46
Butter ...	96	24	...	...	18	54	111	29	...	2	...	80	207	53	...	2	18	134	2,705	51	72	3,650	51
Ghee ...	77	13	...	...	2	62	165	21	...	...	...	144	242	34	...	...	2	206	2,350	69	51	2,465	48
Gingelly Oil ...	99	28	...	...	6	65	99	25	...	...	...	24	198	53	...	...	6	139	2,595	49	102	5,620	55
Groundnut Oil ...	24	7	...	...	4	13	7	1	...	1	...	5	31	8	...	1	4	18	330	41	5	160	32
Cocoanut Oil ...	10	5	...	...	...	5	3	1	...	...	...	2	13	6	...	...	...	7	260	43	9	430	48
Coffee Powder ...	22	8	...	...	1	13	47	8	...	1	...	38	69	16	...	1	1	51	1,165	73	37	1,805	49
Tea ...	6	1	...	...	1	4	11	1	...	...	...	10	17	2	...	...	1	14	30	15	5	200	40
Ghee Substitutes ...	1	...	...	...	...	1	5	...	...	...	...	5	6	...	...	...	...	6	...	...	...	...	...
Other articles* ...	66	16	...	...	1	49	46	25	...	...	...	21	112	41	...	...	1	70	1,620	40	26	1,080	42
Total ...	2406	580	...	11	132	1683	3364	551	...	35	...	2778	5770	1131	...	46	132	4461	54,555	48	1658	77,045	46

* Thoor Dhall—35. Turmeric—21. Arrowroot—7. Maida—1. Chilli Powder—1. Lozenges—1.

WATER ANALYSIS STATEMENT No. I

Showing the number of Samples of Water tested for Bacteriological and Chemical purposes in 1960

Serial No.	Description of Samples	Number of Samples
1	From the sources of the Kortalayar River system	34
2	From the Headworks at Kilpauk Water Works	1,385
3	From the infiltration gallery wells at Sembiam	10
4	From the infiltration gallery wells at Saidapet	11
5	From the Kortalayar distribution system	968
6	From the Sembium distribution system	90
7	From the Saidapet distribution system	71
8	From the shallow wells at Adayar, Kodambakkam, Guindy, Saidapet, Triplicane and Marina	116
9	Private samples	133
10	Sewage and Sewage effluents	12
11	From the water mains under sterilisation	276
12	Microscopical examination	82
	Total ...	3,188

Limnological conditions of the Sources of the City Water Supply—(*a*) Sathyamurthy Sagar in 1960

(Results expressed in parts per 100,000)

Description	23- 2-60	25- 4-60	26- 5-60	18-10-60	28-11-60	17-12-60
A. Physical conditions :						
Time	6 P.M.	2.45 P.M.	1.00 P.M.	4 P.M.	3.15 P.M.	2.45 P.M.
Depth in feet (above mean sea-level).	127.68	125.27	123.77	...	137.10	138.00
Colour	G.	G.	G.	Y.	W.	W.
Temperature (°C)	27	34	30	30	32	27
Turbidity (p. p.m.), Silica scale ...	31.5	58.0	60.0	210.0	28.0	8.5
B. Chemical conditions :						
Total solids	30.4	35.2	44.0	...	22.6	25.0
Total hardness	7.6	7.6	7.2	14.2	8.6	9.8
Calcium hardness	3.2	3.2	3.0	...	5.0	6.0
Magnesium hardness	4.4	4.4	4.2	...	3.6	3.8
Chlorides	3.6	5.2	6.6	5.0	1.5	2.0
Ammoniacal Nitrogen	0.002	0.003	0.003	...	Nil	Nil
Albuminoid Nitrogen	0.096	0.192	0.240	...	0.002	0.008
Nitrous Nitrogen	Nil	Nil	Nil	Int.	Pr.	Nil
Nitric Nitrogen	Tr.	Nil	Nil	Pr.	Tr.	Nil
Oxygen absorbed (Tidy)	0.273	0.592	0.870	0.350	0.145	0.142
Alkalinity to Phenolphthalein ...	1.3	0.5	0.9	1.0	Nil	0.7
,, Methyl orange	16.2	19.5	20.7	21.0	13.1	14.8
Phosphates	0.002	0.001	Nil	Nil	0.001	0.001
Iron	0.02	Tr.	0.02	0.5	0.02	Tr.
pH.	8.9	9.5	9.0	8.4	8.4	8.5
Silicates	0.4	1.4	1.4	...	3.2	2.4
Dissolved Oxygen (c.c./l)	5.32	5.53	6.10	4.97	5.4	4.69
C. Bacteriological conditions :						
B. Coli present in how many c.c. and upwards.	5 c.c.	1.0 c.c.	5 c.c.	1.0 c.c.	1.0 c.c.	5 c.c.

S.G.=Slightly greenish. S.Y.=Slightly yellowish. Y=Yellowish. G.=Greenish. Tr.=Trace.

STATEMENT No. IV

Limnological conditions of the Sources of the City Water Supply—(*b*) Sholavaram Reservoir in 1960.

(Results expressed in parts per 100,000)

Description	28– 1–60	23– 2–60	25– 4–60	26– 5–60	23– 8–60	26– 9–60	18–10–60	28–11–60	17–12–60
A. Physical conditions :									
Time	2.00 P.M.	4.30 P.M.	12.30 P.M.	10.45 A.M.	5.15 P.M.	4 P.M.	6 P.M.	12.30 P.M.	11.45A.M.
Depth in feet (above mean sea-level).	...	56.84	56.24	54.24	49.04	49.74	...	59.78	59.97
Colour	Y.G.	G.	Y.G.	G.	Y.W.	Y.W.	S.Y.	S.Y.	S.Y.
Temperature (°C)	28	30	33	30	30.5	34	30	32	26.5
Turbidity (p.p.m.) Silica scale ...	31.5	26.5	52.0	80.0	280.0	575.0	95.0	55.0	31.5
B. Chemical conditions :									
Total solids	20.4	30.2	29.2	30.4	42.0	52.0	30.0	10.4	20.0
Total hardness	10.0	8.2	7.4	8.8	10.0	7.2	7.6	4.2	7.8
Calcium hardness	5.8	3.6	3.4	3.4	4.8	3.6	4.4	2.1	5.4
Magnesium hardness	4.2	4.6	4.0	5.4	5.2	3.6	3.2	2.1	2.4
Chlorides	3.7	3.8	4.7	5.6	6.9	3.9	2.2	0.8	2.0
Ammoniacal Nitrogen	0.002	0.003	0.003	Nil	Nil	Nil	0.002	0.002	Nil
Albuminoid Nitrogen	0.048	0.096	0.080	0.096	0.088	0.080	0.080	0.005	0.008
Nitrous Nitrogen	Nil	Nil	Nil	Nil	Nil	Nil	Tr.	Nil	Tr.
Nitric Nitrogen	Pr.	Nil	Nil	Nil	Nil	Nil	Tr.	Nil	Nil
Oxygen absorbed (Tidy)	0.145	0.255	0.345	0.387	0.366	0.254	0.265	0.152	0.136
Alkalinity to Phenolphthalein ...	0.2	1.2	0.2	0.5	1.2	0.2	0.5	— 0.3	0.3
,, Methyl orange	12.4	15.2	15.6	16.7	21.5	12.8	13.2	4.6	9.2
Phosphates (PO4)	0.001	0.002	0.001	0.001	Nil	0.001	0.001	0.001	0.001
Iron	0.02	0.015	0.04	0.03	0.08	0.04	0.03	0.04	0.02
pH	8.2	8.9	8.7	8.8	8.5	8.5	8.6	7.7	8.3
Silicates	0.8	0.4	1.0	1.2	1.4	2.0	...	2.4	2.4
Dissolved Oxygen (c.c./l)	4.69	6.72	4.00	5.70	4.55	5.95	5.46	5.50	4.90
C. Bacteriological conditions :									
B. Coli present in how many c.c. and upwards.	1.0 c.c	5 c.c.	1.0 c.c.	5 c.c.	1.0 c.c.	1.0 c.c.	10 c.c.	1.0 c.c.	10 c.c.

STATEMENT No. V

Limnological conditions of the Sources of the City Water Supply—(*c*) Red Hills Reservoir in 1960
(Results expressed in parts per 100,000)

Description	28– 1–60	23– 2–60	25– 4–60	26– 5–60	23– 8–60	26– 9–60	18–10–60	28–11–60	17–12–60
A. Physical conditions :									
Time	1.00 P.M.	3.30 P.M.	11.45 A.M.	10 00 A.M.	4 30 P.M.	3.30 P.M.	6.00 P.M.	11.15 A.M.	10.15. AM.
Depth in feet (above mean sea-level)	44.04	45.65	42.78	41.06	37.16	36.60	37.47	45.36	45.82
Colour	Y.G.	Y.G.	Y.G.	G.	G.Y.	Y.G.	Y.	S.Y.	Y.G.
Temperature (°C)	28°	28°	32°	29.5°	32°	33°	30.5°	27°	26°
Turbidity (p.p.m.)	21.5	23.0	24.5	15.5	28.0	15.5	21.5	28.0	29.0
B. Chemical conditions :									
Total solids	24.0	28.8	34.8	27.2	38.0	29.2	30.2	15.6	15.0
Total hardness	7.8	8.4	8.0	8.4	8.6	7.7	8.0	4.8	5.6
Calcium hardness	4.4	4.6	4.0	3.8	3.8	3.4	3.4	2.5	3.6
Magnesium hardness	3.4	3.8	4.0	4.6	4.8	4.3	4.6	2.3	2.0
Chlorides	3.5	3.9	4.4	4.9	5.8	5.3	4.8	1.7	1.7
Ammoniacal Nitrogen	0.002	0.002	0.002	Nil	Nil	Nil	0.004	0.002	Nil
Albuminoid Nitrogen	0.064	0.112	0.096	0.112	0.104	0.112	0.096	0.048	0.032
Nitrous Nitrogen	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Tr.	Nil
Nitric Nitrogen	Pr.	Nil	Nil	Nil	Nil	Nil	Nil	Pr.	Nil
Oxygen absorbed (Tidy)	0.207	0.273	0.297	0.323	0.294	0.240	0.330	0.157	0.177
Alkalinity to Phenolphthalein ...	0.1	0.4	0.2	0.7	1.4	0.6	0.2	0.3	0.3
,, Methyl orange	12.8	13.8	14.2	15.5	17.7	15.1	14.2	6.4	7.0
Phosphates (PO4)	0.001	0.002	0.001	0.001	Nil	0.001	0.001	Nil	0.001
Iron	0.01	0.015	Tr.	Nil	0.02	Tr.	Tr.	0.01	0.01
pH.	8.1	8.7	8.7	8.6	8.7	8.9	9.0	8.3	8.6
Silicates	0.6	0.4	0.8	1.4	1.4	2.2	...	3.2	3.2
Dissolved Oxygen (c.c./l)	5.25	6.51	3.64	5.2	5.25	5.6	5.6	5.8	5.53
Percentage of Saturation	94.8	119.5	71.2	96.5	102.7	109.8	105.7	102.6	96.2
C. Bacteriological conditions :									
B. Coli present in ? c.c. and upwards.	60.0	10.0	1.0	5.0	5.0	1.0	5.0	5.0	20.0

STATEMENT No. VI

Some important Physical, Chemical and Bacteriological Results of Chlorinated Raw Water in 1960.
(Results expressed in parts per 100,000)

Months 1960	No. of Samples	Colour	Turbidity (p.p.m.).	Total solids	Total hardness	Chlorides	Ammoniacal Nitrogen	Albuminoid Nitrogen	Nitrous Nitrogen	Nitric Nitrogen	Oxygen absorbed (Tidy).	Alkalinity to		Phosphate.	Iron	pH	Silicate	B. Coli—60cc%
												P.T.H.	M.O.					
January ...	20	W	18.5	18.5	8.1	3.9	0.006	0.091	Nil	Tr.	0.191	— 0.5	12.1	0.001	0.015	7.9	0.7	95
February ...	23	W	24.5	25.4	8.4	3.9	0.003	0.096	Nil	Tr.	0.201	— 0.4	12.5	0.003	0.01	7.9	0.6	100
March ...	24	W	25.0	27.4	8.2	4.2	0.003	0.128	Nil	Nil	0.261	0.2	13.4	0.001	0.01	8.2	0.6	82
April ...	19	S.W.	21.5	27.4	8.0	4.4	0.002	0.080	Nil	Tr.	0.291	0.3	13.4	0.001	Tr.	8.0	0.9	53
May ...	25	S.Y.	20.0	29.6	8.4	5.0	0.002	0.068	Nil	Nil	0.272	0.4	14.2	0.001	Tr.	8.3	1.0	88
June ...	24	W	23.1	27.8	8.6	5 3	0.002	0.110	Nil	Nil	0.291	0.4	14.4	0.001	Tr.	8.4	1.3	67
July	24	S.W.	23.0	31.4	8.7	5.4	0.002	0.120	Nil	Nil	0.270	0.4	14.4	0.001	Tr.	8.4	1.4	75
August ...	23	S.W.	23.8	34.9	8.9	5.8	0.002	0.100	Nil	Nil	0.305	0.7	16.0	Nil	Tr.	8.4	1.5	35
September ...	20	S.W.	23.8	37.1	8.4	5.7	0.002	0.120	Nil	Nil	0.274	0.7	14.9	0.001	Tr.	8.4	2.2	20
October ...	24	S.Y.	21.0	28.8	7.6	5.3	0.014	0.090	Nil	Tr.	0.279	0.7	14.1	0.001	Tr,	8.5	3.0	58
November ...	24	S.W.	28.5	20.2	6.0	3.0	0.002	0.058	Tr.	Nil	0.190	0.2	8.5	Nil	0.01	8.1	2.0	58
December ...	26	S.W.	25.4	14.2	5.2	1.5	0.002	0.044	Nil	Nil	0.146	0.2	6.1	Nil	0.01	8.1	2.0	69

S.G.—Sl. Greenish. S.W.—Sl. Whitish. W.—Whitish. G.—Greenish. S.Y.—Sl. Yellowish. Tr.—Trace. Pr.—Present.

WATER ANALYSIS

STATEMENT No. VII

Some important Physical, Chemical and Bacteriological Results of Filtrates from slow sand Filters in 1960
(Results expressed in parts per 100,000)

Months 1960	No. of Samples	Colour	Smell	Turbidity (p.p.m.)	Total hardness	Chlorides	Ammoniacal Nitrogen	Albuminoid Nitrogen	Nitrous Nitrogen	Nitric Nitrogen	Oxygen absorbed (Tidy).	Alkalinity to		Phosphates	Iron	pH	Silicates	B. Coli—60cc%
												P.T.H.	M.O.					
January ...	20	C	Nil	8.0	7.9	3.9	0.025	0.073	Pr.	Tr.	0.162	0.5	12.3	0.001	0.01	7.6	0.7	10
February ...	23	C	Nil	10.2	8.3	4.0	0.022	0.074	Tr.	Tr.	0.174	0.5	12.5	0.003	0.02	7.7	0.6	0
March ...	24	C	Nil	10.0	8.2	4.2	0.026	0.068	Nil	Nil	0.231	0.5	13.5	0.001	0.01	7.7	0.8	0
April ...	19	C	Nil	14.0	8.0	4.5	0.024	0.088	Tr.	Nil	0.262	0.7	13.7	0.001	Tr.	7.9	0.9	0
May ...	25	C	Nil	10.8	8.6	5.0	0.026	0.072	Tr.	Nil	0.260	0.4	14.2	0.001	Tr.	7.9	0.8	0
June ...	24	C	Nil	10.4	8.5	5.3	0.023	0.099	Pr.	Nil	0.273	0.4	14.4	0.001	Tr.	8.1	1.2	0
July ...	24	C	Nil	9.8	8.7	5.5	0.054	0.100	Nil	Nil	0.259	0.6	15.1	0.001	0.01	8.0	1.2	0
August ...	23	C	Sl. H_2S	7.2	8.9	5.7	0.044	0.090	Tr.	Tr.	0.299	0.7	16.5	Nil	Tr.	8.0	1.4	0
September ...	20	C	Sl. H_2S	6.0	8.5	5.9	0.042	0.084	Nil	Nil	0.268	0.3	15.8	0.001	Tr.	7.9	2.2	0
October ...	24	C	Sl. H_2S	11.8	7.8	5.2	0.035	0.090	Pr.	Tr.	0.270	0.2	14.2	0.001	Tr.	8.1	2.6	9
November ...	24	C	Nil	17.0	5.9	3.0	0.020	0.046	Tr.	Tr.	0.186	0.4	9.3	Nil	0.01	7.6	2.2	4
December ...	26	C	Nil	13.6	5.2	1.8	0.002	0.040	Pr.	Tr.	0.123	0.4	6.1	Nil	0.01	7.5	2.0	4

C,—Colourless, Sl, Dis,—Slightly discoloured.

WATER ANALYSIS

STATEMENT No. VIII

Some Important Physical, Chemical and Bacteriological Results of Filtrates from Gravity Mechanical Filters in 1960

(Results expressed in parts per 100,000)

Months 1960	No. of Samples	Turbidity (p.p.m.)	Total solids	Total hardness	Chlorides	Ammoniacal Nitrogen	Albuminoid Nitrogen	Nitrous Nitrogen	Nitric Nitrogen	Oxygen absorbep (Tidy).	Alkalinity to P.T.H.	Alkalinity to M.O.	Phosphates	Iron	pH	Silicates	B. Coli—60 cc%
January ...	20	5.6	16.1	7.6	3.9	0.002	0.072	Nil	Tr.	0.067	— 1.2	9.3	0.01	0.015	7.1	0.8	55
February ...	22	4.4	23.5	8.3	4.1	0.002	0.043	Nil	Tr.	0.094	— 1.2	8.7	0.003	0.01	7.1	0.7	41
March ...	24	3.3	23.0	8.2	4.3	0.002	0.048	Nil	Nil	0.120	— 1.3	10.3	0.001	0.015	7.1	0.8	45
April ...	19	4.0	26.0	8.0	4.5	0.002	0.048	Tr.	Nil	0.139	— 1.1	11.1	0.001	0.01	7.2	0.9	11
May ...	25	4.3	27.2	8.2	5.1	Nil	0.050	Nil	Nil	0.135	— 0.9	11.2	0.001	Tr.	7.3	0.8	8
June ...	24	6.0	29.4	8.6	5.4	0.005	0.082	Nil	Nil	0.161	— 0.7	12.5	0.001	Tr.	7.5	1.1	4
July ...	24	6.2	30.3	8.7	5.5	0.004	0.100	Nil	Nil	0.155	— 1.0	13.1	0.002	Tr.	7.4	1.2	17
August ...	22	7.4	34.3	8.8	5.9	0.002	0.086	Nil	Nil	0.160	— 0.9	14.1	0.001	Tr.	7.5	1.4	9
September ...	19	3.6	37.7	8.7	6.2	Nil	0.072	Nil	Tr.	0.165	— 1.0	13.9	0.002	Tr.	7.3	2.2	0
October ...	23	6.3	29.0	7.7	5.4	0.008	0.088	Tr.	Nil	0.148	— 0.6	14.4	0.001	Tr.	7.4	2.6	9
November ...	24	4.3	21.6	6.1	3.2	0.002	0.045	Nil	Nil	0.095	— 1.1	7.2	0.001	Tr.	7.0	2.0	41
December ...	26	2.7	15.4	5.3	2.0	0.002	0.028	Nil	Nil	0.066	— 1.1	4.4	Nil	Tr.	6.9	2.2	96

WATER ANALYSIS

STATEMENT No. IX

Some important Physical, Chemical and Bacteriological Results of the Test Tap samples collected from the Test Tap at the Kilpauk Pumping Station 1960

(Results expressed in parts for 100,000)

Months 1960	No. of samples.	Smell.	Turbidity (p.p.m.)	Total solids.	Total hardness.	Chlorides.	Ammoniacal Nitrogen.	Albuminoid Nitrogen.	Nitrous Nitrogen.	Nitric Nitrogen.	Oxygen absorbed (Tidy)	Alkalinity to P.T H	Alkalinity to M.O.	Iron	pH.	B. Coli —60 c.c. % 11-00 a.m.	B. Coli —60 c.c. % 4-00 p.m.
January ...	39	Nil	5.6	18.3	7.7	4.0	0.024	0.061	Nil	Tr.	0.105	— 0.6	11.1	0.01	7.3	95	95
February ...	45	Nil	8.5	24.3	8.3	4.1	0.019	0.060	Nil	Tr.	0.148	— 0.5	11.9	0.01	7.3	78	45
March ...	46	Nil	7.4	25.8	8.0	4.4	0.006	0.060	Nil	Nil	0.189	— 0.6	12.3	0.01	7.5	74	9
April ...	34	Nil	4.7	30.4	7.8	4.6	0.009	0.080	Tr.	Nil	0.208	— 0.9	12.2	0.01	7.4	42	7
May ...	49	Nil	5.4	29.2	8.5	5.2	0.002	0.070	Tr.	Nil	0.199	— 0.4	12.6	Tr.	7.7	48	8
June ...	47	Nil	6.1	27.3	8.6	5.5	0.013	0.093	Pr.	Nil	0.227	— 0.6	13.6	0.008	7.7	13	5
July ...	47	Nil	8.1	33.0	8.8	5.6	0.015	0.100	Tr.	Nil	0.196	— 0.7	14.2	Tr.	7.7	29	9
August ...	45	Nil	7.8	35.0	8.9	6.0	0.016	0.090	Tr.	Tr.	0.227	— 0.8	15.4	Tr.	7.7	44	32
September ...	38	Nil	5.5	37.7	8.4	6.2	0.014	0.094	Tr.	Nil	0.197	— 0.5	14.4	Tr.	7.6	25	28
October ...	47	Nil	8.0	29.0	7.9	5.5	0.017	0.080	Tr.	Tr.	0.225	— 0.4	13.6	Tr.	7.7	54	43
November ...	47	Nil	14.4	21.2	6.1	3.4	0.005	0.032	Nil	Nil	0.137	— 0.5	7.9	0.01	7.3	83	91
December ...	51	Nil	9.3	15.0	5.3	2.1	0.002	0.036	Nil	Tr.	0.101	— 0.6	5.8	0.01	7.1	100	100

Tr.— Trace ; Pr.— Present.

Statement showing Chlorination Data for the year 1960

Months 1960.	Quantity of water filtered in million gallons per day.			Dose of chlorine applied to filtered water in ppm.			Dose of chlorine applied to raw water in ppm.			Lbs. of chlorine used per month for pre-chlorination of R.W.	Lbs. of chlorine used per month for post chlorination of F.W.	Total lbs. of chlorine used per month and K. G. equivalent lbs./K.G.	Cost of chlorine per K.G. nP.+S.T.	Cost.	
	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.					Rs.	nP.
January ...	31.41	29.70	30.79	4.30	3.40	4.00	2.90	1.26	2.14	20,026	36,993	57,019 25,887 K.G.	60	15,842	84
February ...	32.13	28.52	30.39	4.20	2.50	3.74	2.90	1.60	2.47	21,895	34,431	56,326 25,572 K.G.	60	15,650	06
March ...	34.52	31.75	32.13	4.00	2.60	3.57	2.60	1.50	2.50	21,562	35,889	57,451 26,083 K.G.	60	15,962	80
April ...	35.23	31.39	32.43	4.10	2.60	3.70	2.50	1.30	2.08	21,109	36,156	57,265 25,998 K.G.	60	15,910	72
May ...	34.99	32.12	33.44	4.00	3.09	3.61	2.90	1.60	2.31	23,907	37.324	60 931 27,663 K.G.	60	16,929	76
June ...	35.58	32.29	33.43	3.80	2.90	3.42	2.80	1.70	2.37	23.608	34,623	58 231 26,437 K.G.	60	16,179	44
July ...	33.98	31.16	32.60	4.40	2.32	3.60	2.90	1.08	2.20	22,238	37,518	59,756 27,129 K.G.	60	16,602	94
August ...	33.84	29.77	32.18	4.20	2.90	3.67	2.90	1.20	1.91	19,237	37,111	56 348 25,582 K.G.	60	15,656	18
September ...	33.03	30.13	31.60	4.70	3.30	4.07	2.20	1.30	1.87	17,317	38,692	56,009 25,428 K.G.	60	15,561	94
October ...	35.58	28.07	30.38	4.90	3.60	4.19	2.60	1.40	1.61	18,391	39,682	58.073 26,365 K.G.	60	16,135	38
November ...	30.98	28.16	30.12	4.80	1.90	3.27	2.40	1.20	1.73	15,745	29,515	45,260 20.548 K.G.	60	12,575	38
December ...	31.99	29.55	30.84	2.40	1.45	1.83	1.80	1.03	1.43	13,671	17,433	31,104 14,121 K.G.	60	8,642	06
Total ...	...	...	...	...	...	...	...	...	...	2,38,406	4,15,367	6,53,773 2,96,813 K.G.	60	1,81,649	50

STATEMENT No. XI (a).

Some important Physical, Chemical and Bacteriological results of samples collected from the High Pressure areas of the City distribution system—1960

(Results expressed in parts/100,000)

Months 1960	High pressure area (near Headworks)												
	No. of samples.	Smell.	Total solids.	Total hardness.	Chlorides.	Ammoniacal Nitrogen.	Albuminoid Nitrogen.	Nitrous Nitrogen.	Nitric Nitrogen.	Oxygen absorbed (Tidy).	Iron.	pH	B. Coli—60 c.c. %
January ...	...	...	...	...	...	...	...	...	...	...	...	...	...
February ...	10	Nil	22.0	7.8	4.1	0.003	0.053	Pr.	Tr.	0.135	0.018	7.5	80
March ...	12	Nil	26.0	8.2	4.4	0.003	0.074	Pr.	Tr.	0.164	0.010	7.6	92
April ...	1	Nil	26.0	8.2	4.6	0.002	0.060	Pr.	Nil	0.192	0.010	7.5	60.0
May ...	20	Nil	31.2	8.5	5.3	0.002	0.040	Pr.	Nil	0.187	0.010	7.5	65
June ...	11	Nil	32.0	8.5	5.2	0.002	0.060	Pr.	Nil	0.206	0.010	7.6	46
July ...	...	...	...	...	...	...	...	...	...	...	...	...	...
August ...	10	Nil	36.4	8.8	6.1	0.002	0.100	Pr.	Tr.	0.192	0.010	7.5	30
September ...	15	Nil	38.0	8.6	6.4	0.016	0.080	Pr.	Tr.	0.179	Tr.	7.5	80
October ...	24	Nil	30.3	8.2	5.7	0.008	0.090	Pr.	Tr.	0.165	Tr.	7.5	50
November ...	10	Nil	26.2	6.7	4.1	0.005	0.074	Tr.	Tr.	0.150	Tr.	7.5	78
December ...	21	Nil	15.4	5.4	2.0	Nil	0.020	Nil	Tr.	0.100	Tr.	7.2	81

WATER ANALYSIS

STATEMENT No. XI (*b*)

Some important Physical, Chemical and Bacteriological results of Low pressure and Booster areas of City Distribution system in 1960

(Results expressed in parts per 100,000)

Months 1960	Low Pressure Areas (Outlying Divisions)													Booster Areas													
	No. of samples	Smell	Total solids	Total hardness	Chlorides	Ammoniacal Nitrogen	Albuminoid Nitrogen	Nitrous Nitrogen	Nitric Nitrogen	Oxygen absorbed (Tidy)	Iron	pH.	B. Coli—60 c.c. per cent.	No. of samples	Smell	Total solids	Total hardness	Chlorides	Ammoniacal Nitrogen	Albuminoid. Nitrogen	Nitrous Nitrogen	Nitric Nitrogen	Oxygen absorbed (Tidy)	Iron	pH.	B. Coli—60 c.c. per cent.
January ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
February ...	54	Nil	18.8	8.3	4.2	0.004	0.053	Pr.	Tr.	0.141	0.014	7.4	61	4	Nil	22.0	8.3	4.4	0.002	0.044	Pr.	Tr.	0.126	0.03	7.5	0
March ...	88	Nil	25.8	8.3	4.4	0.003	0.048	Pr.	Nil	0.147	0.01	7.3	78	13	Nil	...	8.2	4.5	0.002	0.040	Pr.	Nil	0.149	0.01	7.3	46
April ...	48	Nil	24.2	8.0	4.8	0.003	0.060	Pr.	Nil	0.190	0.005	7.4	44	6	Nil	26.8	8.1	4.6	0.007	0.069	Pr.	Tr.	0.168	Tr.	7.3	33
May ...	102	Nil	27.9	8.4	5.4	0.002	0.059	Pr.	Tr.	0.174	0.010	7.4	42	21	Nil	29.2	8.4	5.3	0.007	0.066	Pr.	Tr.	0.184	0.016	7.5	48
June ...	46	Nil	28.4	8.7	5.3	0.016	0.066	Pr.	Nil	0.200	0.010	7.6	35	4	Nil	31.2	8.4	5.2	0.016	0.088	Pr.	Nil	0.192	0.01	7.6	75
July ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
August ...	64	Nil	34.6	8.8	6.5	0.010	0.072	Pr.	Tr.	0.198	Tr.	7.5	31	6	Nil	34.4	8.9	6.1	0.016	0.100	Pr.	Tr.	0.203	Tr.	7.7	33
September ...	99	Nil	36.4	8.6	6.0	0.016	0.080	Pr.	Tr.	0.176	0.01	7.5	32	10	Nil	34.4	8.6	6.0	0.016	0.064	Pr.	Tr.	0.166	0.01	7.5	40
October ...	85	Nil	30.6	7.9	5.6	0.009	0.085	Pr.	Tr.	0.170	Tr.	7.4	50	20	Nil	29.8	8.1	5.7	0.002	0.096	Tr.	Tr.	0.170	Tr.	7.5	60
November ...	75	Nil	28.6	6.6	3.8	0.004	0.070	Tr.	Tr.	0.133	0.01	7.2	48	9	Nil	27.8	7.0	4.0	0.002	0.112	Tr.	Tr.	0.130	0.01	7.3	22
December ...	74	Nil	15.8	5.6	2.1	0.002	0.030	Nli	Tr.	0.093	Tr.	7.3	58	6	Nil	15.4	6.0	2.2	0.002	0.040	Tr.	Tr.	0.104	0.01	7.4	33

WATER ANALYSIS

STATEMENT No. XII

Results of Chemical and Bacteriological Examination of the Infiltration Gallery Wells at Saidapet and Sembiam in 1960 (Results expressed in parts per 100,000)

Months 1960	SAIDAPET															SEMBIAM														
	Total solids	Total hardness	Chlorides	Ammoniacal Nitrogen	Albuminoid Nitrogen	Nitrous Nitrogen	Nitric Nitrogen	Oxygen Absorbed (Tidy)	Phenolphthalein Alkalinity	Methyl Orange Alkalinity	Phosphate	Iron	pH.	Silicates	B. Coli—present in ? c.c. and upwards.	Total solids	Total hardness	Chlorides	Ammoniacal Nitrogen	Albuminoid Nitrogen	Nitrous Nitrogen	Nitric Nitrogen	Oxygen absorbed (Tidy)	Phenolphthalein Alkalinity	Methyl Orange Alkalinity	Phosphate	Iron	pH.	Silicates	B Coli—present in ? c.c. and upwards
January ...	38.8	16.0	13.0	0.002	0.003	Nil	Tr.	0.175	— 1.8	11.1	0.01	0.04	6.9	1.0	...	40.4	19.0	13.0	0.002	0.002	Nil	Tr.	0.173	— 1.5	15.5	0.02	0.01	7.1	1.0	—60
February ...	43.6	19.0	13.0	Nil	Nil	Nil	Tr.	0.040	— 1.5	15.6	0.01	0.02	7.1	0.8	—60	39.6	17.0	14.0	0.002	0.003	Nil	Nil	0.030	— 2.4	11.2	0.02	0.06	6.9	1.0	—60
March ...	51.8	19.0	15.0	Nil	Nil	Nil	Pr.	0.035	— 1.2	16.4	0.01	0.01	7.2	0.8	—60	48.0	16.0	14.0	0.003	0.002	Nil	Tr.	0.054	— 3.3	12.1	0.01	0.05	7.1	1.2	—60
April ...	48.6	17.0	14.0	0.002	0.002	Nil	...	0.053	— 0.9	15.9	0.01	0.005	7.4	1.6	—60	51.2	17.0	14.0	0.002	0.002	Nil	Tr.	0.050	— 2.2	13.0	0.01	0.06	7.1	0.8	—60
May ...	55.6	17.0	18.0	Nil	0.003	Nil	Pr.	0.045	— 0.7	17.6	0.02	0.01	7.1	1.2	—60	57.6	24.0	22.0	0.002	0.002	Tr.	Tr.	0.053	— 0.7	13.9	0.008	0.08	6.9	1.2	—60
June ...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
July ...	58.8	19.0	15.0	0.002	0.003	Tr.	Tr.	0.029	— 2.4	17.6	0.01	0.02	7.3	1.6	—60	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
August ...	59.6	19.0	16.0	0.003	0.004	Nil	Pr.	0.014	— 1.5	20.2	0.01	0.01	7.5	1.6	—60	77.6	23.0	25.0	0.003	0.002	Tr.	Tr.	0.017	— 3.5	15.4	0.01	0.15	7.1	2.0	10
September ...	59.6	20.0	17.0	Nil	Nil	Nil	Pr.	0.045	— 0.8	18.5	0.002	Nil	7.3	1.2	—60	76.0	29.0	26.0	0.003	0.002	Tr.	Tr.	0.024	— 2.5	16.0	0.02	0.06	7.1	4.0	10
October ...	59.6	21.0	17.0	0.002	0.002	Tr.	Pr.	0.040	— 1.8	18.5	0.01	0.02	7.6	3.2	—60	76.0	33.0	33.0	Nil	Nil	Nil	Pr.	0.047	— 2.6	14.6	0.008	0.04	6.9	3.6	—60
November ...	35.6	14.8	9.6	Nil	Nil	Nil	Pr.	0.030	— 0.5	12.7	0.002	0.02	7.5	2.4	—60	29.6	4.8	3.3	Nil	Nil	Nil	Pr.	0.068	— 1.1	7·3	0.002	0.10	6.9	2.4	10
December ...	42.6	25.0	11.6	Nil	Nil	Nil	Pr.	0.051	— 0.7	12.2	0.03	0.025	7.2	3.2	—60	40.8	13.0	10.0	Nil	Nil	Nil	Pr.	0.032	— 1.5	9.8	0.01	0.015	6.9	3.2	—60

WATER ANALYSIS

STATEMENT No. XIII.

Infiltration Gallery Systems—Distribution System—Results of Chemical and Bacteriological Examination in 1960 (Results expressed in parts per 100,000)

Months 1960	SEMBIAM												SAIDAPET											
	No. of samples	Total solids	Total hardness	Chlorides	Ammoniacal Nitrogen	Albuminoid Nitrogen	Nitrous Nitrogen	Nitric Nitrogen	Oxygen absorbed (Tidy)	Iron	pH.	B. Coli—60 c.c. per cent	No. of samples	Total solids	Total hardness	Chlorides	Ammoniacal Nitrogen	Albuminoid Nitrogen	Nitrous Nitrogen	Nitric Nitrogen	Oxygen absorbed (Tidy)	Iron	pH.	B. Coli—60 c.c. %
January ...	5	40.0	15.5	10.7	0.003	0.035	Nil	Pr.	0.216	0.01	7.4	80	5	25.6	10.3	8.7	0.002	0.042	Nil	Pr.	0.190	0.03	7.2	100
February ...	9	40.0	12.4	7.9	0.003	0.033	Pr.	Tr.	0.090	0.02	7.2	89	8	47.2	15.3	10.8	0.002	0.032	Nil	Pr.	0.090	0.01	7.4	25
March ...	9	53.6	12.2	8.2	0.002	0.036	Tr.	Tr.	0.117	0.019	7.5	55	7	...	13.2	11.5	Nil	0.020	Pr.	Tr.	0.090	0.01	7.5	71
April ...	9	38.7	11.1	9.1	0.002	0.032	Nil	Tr.	0.132	Tr.	7.2	89	7	40.2	12.6	9.6	0.002	0.030	Nil	...	0.106	Tr.	7.5	71
May ...	9	26.0	13.3	8.4	0.002	0.053	Pr.	Tr.	0.147	0.01	7.5	78	8	40.4	12.8	11.6	0.002	0.053	Pr.	Pr.	0.145	Tr.	7.5	50
June ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
July ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
August ...	9	66.2	21.9	21.4	0.009	0.036	Tr.	Tr.	0.094	0.05	7.3	44	7	34.0	9.2	6.0	0.015	0.100	Pr.	Tr.	0.188	0.015	7.6	86
September ...	8	83.6	18.8	15.2	0.020	0.096	Tr.	Tr.	0.150	0.02	7.5	62	8	45.6	9.4	7.2	0.002	0.080	Tr.	Tr.	0.152	0.01	7.5	0
October ...	15	30.0	17.4	17.2	0.002	0.038	Tr.	Tr.	0.104	0.015	7.6	73	6	56.0	12.1	8.2	0.002	0.090	Nil	Pr.	0.138	0.01	7.5	67
November ...	9	22.0	5.8	3.4	Nil	0.002	Nil	Nil	0.084	0.07	7.0	44	9	23.4	5.8	2.9	Nil	0.010	Nil	Tr.	0.183	0.02	7.3	78
December ...	8	34.2	12.5	10.2	Nil	Nil	Nil	Tr.	0.050	0.025	7.7	88	6	28.4	11.5	5.4	Nil	0.020	Nil	Nil	0.074	0.01	7.4	100

WATER ANALYSIS. STATEMENT No. XIV.

Statement showing the Variation in the Concentration of the Chemical Constituents of Water Samples collected from the Shallow Wells, used as sources of Water Supply in certain Outlying Areas.

(Results expressed in parts per 100,000.)

Location of Wells.	Total solids.	Total hardness.	Chlorides.	Oxygen absorbed (Tidy).	Alkalinity to		pH.	Iron.	Bacteriological—% of first class samples of chlorinated water.
					P.T.H.	M.O.			
Urur (Adyar) East	14.0—22.0	3.4— 9.6	1.2— 2.6	0.008—0.094	—0.2 to —0.9	8.8—10.0	7.5—8.4	0.005 to 0.02	11
Do. West	28.0—45.6	8.0—16.4	2.4— 6.2	0.020—0.088	—0.2 to +2.2	10.9—19.8	7.6—8.3	Nil — 0.03	22
Kottur ...	54.0—92.0	14.4—30.0	12.0—27.0	0.030—0.067	—1.6 to —4.5	16.6—21.0	6.9—8.2	Tr. — 0.02	78
Ganapathy Colony (Guindy) ...	78.4—138	51.0—64.0	23.0—30.0	0.018—0.068	—1.1 to —3.1	22.8—26.4	7.5—7.9	Nil — 0.01	60
Wells on Marina :									
Opposite to Wenlock Park ...	26.4—38.0	12.8—19.0	2.0—8.0	0.008—0.064	—0.1 to +0.2	10.4—16.0	7.8—8.2	Nil — 0.01	80
Opposite to Sunkuvar Street ...	36.8—56.0	11.0—21.0	7.0—13.2	0.022—0.080	—0.2 to +0.8	8.6—14.8	7.8—8.1	Tr. — 0.02	70
Triplicane :									
Nagappier St. ...	71.6—81.8	22.0—28.0	11.2—17.0	0.017—0.090	—0.6 to —3.0	25.2—29.0	7.4—7.9	Nil — 0.02	40
Chellapillayar Koil St. ...	60.0—175.0	24.0—57.6	9.0—43.2	0.006—0.077	—0.5 to —2.5	24.4—32.3	7.3—8.1	Tr. — 0.04	64
Kodambakkam :									
United India Colony ...	182—267	53.0—76.0	72.0—100	0.016—0.195	—1.7 to —12.2	36.0—49.0	7.1—7.8	0.02—0.2	82
Puliyur ...	95.0—155	22.0—64.0	23.0—66.0	0.046—0.156	—1.2 to —6.0	27.1—40.8	7.1—7.9	Nil — 0.03	64
Solayappan St. (4th Dn.) ...	43.2—86.0	14.0—32.0	5.4—15.0	0.083—0.165	—0.7 to —2.6	12.6—23.8	7.1—7.7	Nil — 0.03	43

WATER ANALYSIS — STATEMENT No. XV.

(*See next page*)

WATER ANALYSIS

STATEMENT No. XV.

Summarised Report on the Sterilisation of Water Mains during the year 1960

(Results expressed in parts per 100,000)

Serial number.	Places	Plant number	Period	Length of pipe line sterilised	Total lbs. of Chlorine used	Before sterilisation.						After sterilisation.						% of reduction or increase in the Ammoniacal Nitrogen content in the treated samples as compared with that of untreated samples	% of reduction or increase in the Albuminoid Nitrogen content in the treated samples as compared with that of untreated samples	% of reduction or increase in the iron content in the treated samples as compared with that of untreated samples.
						Ammoniacal Nitrogen	Albuminoid Nitrogen	Oxygen Absorbed (Tidy).	Iron	Phosphate	Bacteriological (% of first class samples)	Ammoniacal Nitrogen	Albuminoid Nitrogen	Oxygen Absorbed (Tidy)	Iron	Phosphate	Bacteriological (% of first class samples)			
	I. *Trunk Main No. 5.*																			
1	Poonamalle High Road.	1	12-1-60 to 26-1-60 (6 days)	2 miles 1 fur.	270 lbs.	...	Samples could not be collected.													
2	General Hospital Road.	2	11-1-60 to 27-1-60 (7 days)																	
3	Muthuswami Iyer Road.	1	27-1-60 to 5-2-60 (8 days)																	
4	N.S.C. Bose Road ...	2	28-1-60 to 10-2-60 (8 days)																	
5	Thambu Chetti Street.	2	11-2-60 to 21-2-60 (5 days)																	

	II. *Trunk Main No. 3*											...								
6	Hunters Road ...	2	2-3-60 to 16-3-30 (8 days)	5 miles 2 fur.	360 lbs.	0.004	0.060	0.198	0.01	0.001	...	0.006	0.080	0.168	0.02	0.006	...	+ 50	+ 33	+ 100
7	Peoples Park ...	1	18-5-60 to 30-5-60 (9 days)																	
8	Ravanan Street ...	1	31-5-60 to 9-6-60 (6 days)																	
9	Audiappa Naicken Street.	2	30-5-60 to 9-6-60 (8 days)																	
10	Govindappa Naicken Street (South).	1	10-6-60 to 19-6-60 (7 days)																	
11	Govindappa Naicken Street (North).	2	10-6-60 to 19-6-60 (6 days)																	
12	Portugese Church Street.	1	20-6-60 to 27-6-60 (4 days)																	
13	Pedariar Koil Street ...	2	20-6-60 to 27-6-60 (5 days)																	
14	Ebrahimjee Sahib Street.	2	26-7-60 to 3-8-60 (5 days)																	
15	Monegarchoultry Rd. (South).	2	28-6-60 to 27-6-60 (6 days)																	
16	Monegarchoultry Rd. (North).	1	28-6-60 to 13-7-60 (6 days)																	

Summarised Report on the Sterilisation of Water Mains during the year 1960
(Results expressed in parts per 100,000)

Serial number.	Places.	Plant number.	Period.	Length of pipe line sterilised.	Total lbs. of Chlorine used.	Before sterilisation						After sterilisation						% of reduction or increase in the Ammoniacal Nitrogen content in the treated samples as compared with that of untreated samples.	% of reduction or increase in the Albuminoid Nitrogen content in the treated samples as compared with that of untreated samples.	% of reduction or increase in the Iron content in the treated samples as compared with that of untreated samples.
						Ammoniacal Nitrogen.	Albuminoid Nitrogen.	Oxygen Absorbed (Tidy).	Iron.	Phosphate.	Bacteriological (% of first class samples).	Ammoniacal Nitrogen.	Albuminoid Nitrogen.	Oxygen Absorbed (Tidy).	Iron.	Phosphate.	Bacteriological (% of first class samples).			
17	Gollawar Agraharam Road.	1	14-7-60 to 25-7-60 (4 days)	5 miles 2 fur.	360 lbs.	0.004	0.060	0.198	0.01	0.001	...	0.006	0.080	0.168	0.02	0.006	...	+ 50	+ 33	+ 100
18	T. H. Road ...	1	26-7-60 to 3-8-60 (6 days)																	
	III. *Trunk Main No.* :																			
19	Baracha Road ...	2	23-9-60 to 7-10-60 (8 days)	2 miles 2 fur.	285 lbs.	0.005	0.068	0.186	0.01	0.001	70%	0.006	0.068	0.161	0.03	0.001	94%	+ 20	Nil	+ 200
20	Konnur High Road ...	2	8-10-60 to 23-11-60 (6 days)																	
21	Stephenson Road ...	1	14-10-60 to 27-10-60 (10 days)																	
22	D'costa Road ...	1	28-10-60 to 15-11-60 (9 days)																	

	IV. *Shenoy Nagar Area.*																			
23	New Avadi Road ...	1	4-8-60 to 19-8-60 (5 days)	2 miles	267 lbs.	0.005	0.080	0.200	0.01	0.001	50%	0.007	0.088	0.176	0.02	0.001	100%	+ 40	+ 10	+ 100
24	Poonamalle High Road (Jn. McNichols Road).	2	4-8-60 to 19-8-60 (7 days)																	
25	Kilpauk Garden Road.	1	20-8-60 to 5-9-60 (13 days)																	
26	Poonamalle High Road (opp. to Pachiappas College).	2	20-8-60 to 4-9-60 (10 days)																	
	V. *Sembiam Area.*																			
27	Perambur High Road.	2	23-11-60 to 6-12-60 (8 days)	1 mile 2 fur.	90 lbs.	Nil	0.046	0.087	0.02	Nil	...	Nil	0.060	0.072	0.08	Nil	...	Nil	Nil	+ 300
28	Palavayal Street ...	1	24-11-60 to 4-12-60 (6 days)																	
	VI. *Saidapet Area.*																			
29	Venkatanarayana Rd.	1	5-12-60 to 18-12-60 (10 days)	- miles 4 fur.	204 lbs.	0.002	0.021	0.132	0.01	Nil	...	0.002	0.021	0.081	0.05	0.001	Nil	Nil	Nil	+ 400
30	Mount Road (Power House).	2	7-12-60 to 20-12-60 (8 days).																	
31	Mount Road (Richard Park).	1	19-12-60 to 28-12-60 (7 days)																	
32	Near Saidapet over Head Tank.	2	21-12-60 to 31-12-60 (9 days)																	

STATEMENT No. XV—(*contd.*)

Serial number.	Places.	Plant number.	Period.	Length of pipe line sterilised.	Total lbs. of Chlorine used.	Before sterilisation						After sterilisation						% of reduction or increase in the Ammoniacal Nitrogen content in the treated samples as compared with that of untreated samples.	% of reduction or increase in the Albuminoid Nitrogen content in the treated samples as compared with that of untreated samples.	% of reduction or increase in the Iron content in the treated samples as compared with that of untreated samples.
						Ammoniacal Nitrogen.	Albuminoid Nitrogen.	Oxygen Absorbed (Tidy).	Iron.	Phosphate.	Bacteriological (% of first class samples).	Ammoniacal Nitrogen.	Albuminoid Nitrogen.	Oxygen Absorbed (Tidy).	Iron.	Phosphate	Bacteriological (% of first class samples).			
	VII. *Mains Leading to Royapettah Hospital.*																			
33	Peters Road ...	1	7-1-60 to 11-1-60 (5 days)	1 mile 4 fur.	356 lbs.	0.002	0.056	0.161	0.01	0.001	58%	0.003	0.056	0.134	0.03	0.002	100%	+ 50	Nil	+ 200
34	Royapettah High Road (near Tower clock).	2	17-3-60 to 31-3-60 (8 days)																	
35	Royapettah High Road (near Peters Road.)	2	1-4-60 to 11-4-60 (8 days)																	
36	Royapettah High Road (near Ajantha Hotel).	1	21-3-60 to 3-4-60 (8 days)																	
37	Royapettah High Road (Jn. Leonard Street).	1	4-4-60 to 11-4-60 (5 days)																	
38	Royapettah Bazaar Road.	1	12-4-60 to 28-4-60 (9 days)																	
39	Royapettah High Road (near Hospital).	2	29-4-60 to 17-5-60 (6 days)																	

	VIII. *Vysarpadi Area.*																			
40	Sundara Mudali Street.	1	6-2-60 to 15-2-60 (5 days)	1 mile 2 fur.	162 lbs.	0.017	0.080	0.176	0.01	0.001	25%	0.018	0.076	0.156	0.37	0.001	65%	+ 6	— 5	+3600
41	Gantz Road ...	1	16-2-60 to 25-2-60 (7 days)																	
42	Magazine Puram ...	2	16-5-60 to 29-5-60 (8 days)																	
	IX. *Pulianthope Area.*																			
43	Kalyana Maistry St. ...	2	22-2-60 to 1-3-60 (4 days)	1 mile	111 lbs.	0.003	0.048	0.148	0.01	0.001	40%	0.004	0.056	0.110	0.03	0.002	100%	+ 33	+ 16	+ 200
44	Angalamman Koil St.	1	26-2-60 to 8-3-60 (8 days)																	
45	D'Mello Road ...	1	9-3-60 to 20-3-60 (5 days)																	
	X. *Triplicane Area.*																			
46	Kuppu Muthu Mudali Street.	2	1-10-60 to 10-1-60 (3 day)	1 mile	78 lbs.	0.020	0.080	0.171	0.010	0.001	...	0.020	0.080	0.147	0.03	0.001	...	Nil	Nil	+ 200
47	Pycrofts Road ...	2	12-4-60 to 1-5-60 (2 days)																	
48	Pycrofts Road (Jn. Bells Road).	2	2-5-60 to 15-5-60 (7 days)																	
	Miscellaneous																			
49	Barnaby Road ...	1	6-9-60 to 22-9-60 (6 days)	2 fur.	36 lbs.	0.022	0.096	0.190	Tr.	0.001	66%	0.020	0.096	0.164	0.01	0.001	100%	— 9	Nil	+ 100
50	Brick-kiln Road ...	1	23-9-60 to 13-10-60 (14 days)	4 fur.	84 lbs.	Samples could not be collected.														
51	Millers Road ...	2	6-9-60 to 22-9-60 (7 days)	2 fur.	42 lbs.	Samples could not be collected.														
52	Vasantha Garden St.	1	16-11-60 to 23-11-60 (5 days)	4 fur.	45 lbs.	0.006	0.080	0.180	0.01	Nil	...	0.004	0.056	0.185	0.01	Nil	...	Nil	Nil	+ 100
53	Tilak Street ...	2	29-12-60 to 31.12-60 (3 days)	2 fur.	18 lbs.	0.002	0.040	0.162	0.01	0.001	...	0.002	0.040	0.112	0.03	0.001	...	Nil	Nil	+ 200

CHILD WELFARE SCHEME — STATISTICS SUPPLEMENT No. 48.

Statement showing the number of cases of labour which came under the care and observation of Child Welfare Scheme during 1960.

Serial No.	Centre	How conducted.					Caste.			Remarks.	
		By Nurses of C. W. S.	Taken to Hospitals.	Taken over after conducted by barber women.	Maternity ward	Total.	Hindus.	Christians.	Muslims.	Twins.	Still births.
1	Tondiarpet ...	161	56	27	854	1,098	982	57	59	8	25
2	Palmyrakuppam ...	195	3	7	...	205	155	9	41	2	4
3	Royapuram ...	298	10	7	...	315	188	6	121	3	3
4	Sanjeevirayanpet ...	240	70	19	787	1,116	1,047	9	60	4	20
5	Washermanpet ...	501	117	24	1,143	1,785	1,356	14	415	12	44
6	Vyasarpady ...	260	79	13	585	937	897	27	13	1	21
7	George Town ...	219	70	1	654	944	830	24	90	12	20
8	Kothwal Bazaar ...	265	69	5	757	1,096	861	42	193	8	13
9	Muthialpet ...	285	16	28	59	388	211	3	174	6	7
10	Trevelyan Basin ...	138	73	2	797	1,010	1,003	4	3	7	24
11	Choolai Maternity Home.	335	207	12	1,717	2,271	2,157	47	67	21	37
12	Pulianthope ...	704	92	18	690	1,504	1,015	56	433	17	27
13	North Perambur ...	293	18	6	...	317	183	8	126	1	10
14	Sembiam ...	478	135	15	689	1,317	1,168	62	87	12	23
15	Ayanavaram ...	266	56	14	882	1,218	1,132	41	45	10	27
16	Kilpauk ...	139	38	7	373	557	507	24	26	7	14
17	Nammalwarpet ...	193	14	14	...	221	212	4	5	3	4
18	Kosapet ...	266	41	15	...	322	307	3	12	1	9
19	Purasawalkam ...	141	46	2	929	1,118	1,041	45	32	7	24
20	Ashok Vihar ...	73	31	5	727	836	701	68	67	4	13
21	Edapalayam ...	63	3	...	...	66	66	...	...	...	2
22	Park Town ...	63	5	2	...	70	62	3	5	...	...
23	Napier Park ...	260	22	3	...	285	243	39	3	3	4
24	Egmore ...	244	24	3	...	271	148	14	109	2	8
25	Chetput ...	112	38	2	460	612	547	49	16	8	10
26	Thousand Lights ...	173	18	2	...	193	131	17	45	4	6
27	Nungambakkam ...	148	12	...	...	160	157	2	1	1	5
28	Kodambakkam ...	271	116	11	1,235	1,633	1,505	69	59	15	38
29	T. Nagar (North) ...	161	11	7	...	179	165	...	14	1	4
30	Royapettah ...	303	32	3	...	338	294	39	5	1	5
31	Triplicane ...	696	87	12	414	1,209	759	9	441	10	23
32	Zam Bazaar ...	287	15	2	...	304	168	...	136	1	8
33	Mirsahibpet ...	345	9	4	...	358	168	...	190	7	7
34	Mylapore ...	478	15	5	...	498	395	8	95	6	14
35	Teynampet ...	404	7	7	...	418	412	...	6	4	12
36	Saidapet Maternity Home.	233	237	5	1,811	2,286	2,101	93	92	23	53
37	T. Nagar (South) ...	176	8	1	...	185	183	1	1	...	6
38	Saidapet Sub Centre ...	130	9	8	...	147	144	...	3	2	5
39	Guindy ...	100	7	5	...	112	110	1	1	2	1
40	Mandavalli ...	270	8	2	...	280	266	7	7	3	8
41	Adayar ...	75	26	...	319	420	389	17	14	4	6
42	Basin Bridge ...	363	13	6	...	382	321	4	57	5	11
43	Hospital Maidan ...	83	3	5	...	91	88	1	2	...	2
44	Periamet ...	15	...	...	...	15	10	3	2	...	...
	Total ...	10,903	1,966	336	15,882	29 087	24,785	929	3373	248	607

Statement showing the number of visits paid by the staff of Child Welfare Scheme during 1960.

S. No.	Centre.	Midwives.	Health Visitors.	Assistant Surgeons.	Total.
1	Tondiarpet ...	6,809	6,357	714	13,880
2	Palmyrakuppam ...	3,184	2,085	366	5,635
3	Royapuram ...	4,412	2,352	633	7,397
4	Sanjeevirayanpet ...	5,738	5,431	559	11,728
5	Washermanpet ...	11,447	8,435	302	20,184
6	Vyasarpady ...	5,278	3,543	742	89,563
7	George Town ...	4,305	4,179	660	9,144
8	Kothwal Bazaar ...	6,182	5,718	723	12,623
9	Muthialpet ...	5,330	2,124	600	8,054
10	Trevelyan Basin ...	3,547	2,944	805	7,296
11	Choolai ...	9,451	7,600	911	17,962
12	Pulianthope ...	12,549	5,322	704	18,575
13	North Perambur ...	4,020	2,529	419	6,968
14	Sembium ...	15,587	2,451	704	18,742
15	Ayanavaram ...	5,244	4,250	744	10,238
16	Kilpauk ...	4,004	1,684	745	6,433
17	Nammalwarpet ...	2,577	2,404	339	5,320
18	Kosapet ...	5,298	1,938	365	7,601
19	Purasawalkam ...	4,698	2,115	580	7,343
20	Ashok Vihar ...	3,004	2,551	14	5,569
21	Edapalayam ...	1,147	1,647	420	3,214
22	Park Town ...	1,569	1,645	387	3,601
23	Napier Park ...	3,308	2,676	205	6,189
24	Egmore ...	3,821	2,022	156	5,999
25	Chetput ...	3,686	1,887	497	6,070
26	Thousand Lights ...	2,650	1,374	597	4,621
27	Nungambakkam ...	2,320	938	229	3,487
28	Kodambakkam ...	6,932	5,612	1,222	13,766
29	T. Nagar (North) ...	2,785	941	248	3,974
30	Royapettah ...	3,563	1,446	596	5,605
31	Triplicane ...	7,283	5,998	692	13,973
32	Zam Bazaar ...	3,437	1,709	306	5,452
33	Mirsahibpet ...	4,191	1,453	336	5,980
34	Mylapore ...	4,066	4,134	713	8,913
35	Teynampet ...	3,449	1,845	322	5,616
36	Saidapet Maternity Home ...	8,046	5,001	673	13,720
37	T. Nagar (South) ...	1,978	892	200	3,070
38	Saidapet Sub-Centre ...	3,397	2,314	413	6,124
39	Guindy ...	1,518	994	550	3,062
40	Mandavalli ...	2,532	2,757	656	5,945
41	Adayar ...	5,351	1,583	550	7,484
42	Basin Bridge ...	6,176	2,945	516	9,637
43	Hospital Maidan ...	1,527	1,627	203	3,357
44	Periamet ...	452	88	76	616
	Total ...	208,529	128,543	22,342	359,514

CHILD WELFARE SCHEME. STATISTICS SUPPLEMENT No. 50.

Showing deaths among cases brought under the care of Child Welfare Scheme during the year 1960.

S. No.	Centre.	Deaths among cases brought under the care of C.W.S. but not under treatment.			Deaths among cases brought under care and treatment of C.W.S.	Total
		Under Private Doctors.	Under Vaidians.	In Hospitals.		
1	Tondiarpet ...	...	...	4	1	5
2	Palmyrakuppam ...	...	...	...	...	...
3	Royapuram ...	...	...	...	...	...
4	Sanjeevirayanpet ...	...	...	1	...	1
5	Washermanpet ...	...	...	1	...	1
6	Vyasarpady ...	...	...	...	...	...
7	George Town ...	...	...	...	1	1
8	Kothwal Bazaar ...	...	...	2	...	2
9	Muthialpet ...	...	...	1	...	1
10	Trevelyan Basin ...	...	...	...	...	...
11	Choolai ...	...	...	3	...	3
12	Pulianthope ...	...	...	1	...	1
13	North Perambur ...	...	...	...	...	...
14	Sembiam ...	...	...	2	...	2
15	Ayanavaram ...	...	...	1	...	1
16	Kilpauk ...	...	...	...	...	...
17	Nammalwarpet ...	...	...	...	...	...
18	Kosapet ...	...	...	...	...	...
19	Purasawalkam ...	...	...	2	...	2
20	Ashok Vihar ...	1	...	1	...	2
21	Edapalayam ...	...	...	...	...	...
22	Park Town ...	...	...	...	...	...
23	Napier Park ...	...	...	...	...	...
24	Egmore ...	...	...	...	...	...
25	Chetput ...	...	...	...	...	...
26	Thousand Lights ...	...	...	...	...	...
27	Nungambakkam ...	...	...	...	...	...
28	Kodambakkam ...	...	...	1	...	1
29	T. Nagar (North) ...	...	...	...	...	...
30	Royapettah ...	...	...	...	...	...
31	Triplicane ...	...	...	...	...	...
32	Zam Bazaar ...	...	...	...	...	...
33	Mirsahibpet ...	...	...	1	...	1
34	Mylapore ...	...	...	...	...	...
35	Teynampet ...	...	...	...	...	...
36	Saidapet Maternity Home.	...	...	2	...	2
37	T. Nagar (South) ...	...	...	...	...	...
38	Saidapet Sub-Centre ...	...	...	...	...	...
39	Guindy ...	...	...	...	...	...
40	Mandavalli ...	...	...	...	...	...
41	Adayar ...	...	...	...	...	...
42	Basin Bridge ...	...	...	...	...	...
43	Hospital Maidan ...	...	...	...	...	...
44	Periamet ...	...	...	...	...	...
	Total ...	1	...	23	2	26

CHILD WELFARE SCHEME. STATISTICS SUPPLEMENT No. 54.

Statement showing the serological examination of blood conducted during the year 1960.

S. No.	Centre.	Total No. of blood samples examined.	No. +ve.	No. of +ve cases that took full course of treatment.	No. of +ve cases that took partial treatment.	No. of +ve cases that did not turn up for treatment.
1	Tondiarpet C.W.C. ...	589	32	5	12	15
2	Sanjeevirayanpet C.W.C. ...	700	23	8	5	10
3	Washermanpet C.W.C. ...	1,292	68	9	23	36
4	Vyasarpady C.W.C. ...	757	18	6	3	9
5	George Town C.W.C. ...	965	35	18	5	12
6	Kothwal Bazaar C.W.C. ...	906	40	18	7	15
7	Trevelyan Basin C.W.C. ...	645	22	10	6	6
8	Choolai Maty. Home C.W.C. ...	1,588	71	34	17	20
9	Sembium C.W.C. ...	1,293	40	3	3	34
10	Pulianthope C.W.C. ...	1,217	62	18	13	31
11	Ayanavaram C.W.C. ...	958	34	22	4	8
12	Kilpauk C.W.C. ...	251	7	3	3	1
13	Purasawalkam C.W.C. ...	560	16	16	...	...
14	Ashok Vihar C.W.C. ...	420	13	4	2	7
15	Chetput C.W.C. ...	313	20	9	6	5
16	Kodambakkam C.W.C. ...	1,560	74	28	5	41
17	Triplicane C.W.C. ...	1,189	37	13	12	12
18	Saidapet Maty. Home C.W.C.	1,679	85	19	7	59
19	Adayar C.W.C. ...	325	17	15	1	1
	Total ...	17,207	714	258	134	322

CHILD WELFARE SCHEME. STATISTICS SUPPLEMENT No. 55.

Showing the number of labour cases that came under the care and observation of Child Welfare Scheme—Infant mortality rate and maternal mortality rate of Child Welfare Scheme from the years 1940 to 1960.

Year.	No of labour cases that came under the care and observation.	Infant mortality rate (per 1,000).	Maternal mortality rate (per 1000.)
1940 ...	14,489	115.80	2.50
1941 ...	14,984	103.40	2.60
1942 ...	8,390	104.40	3.00
1943 ...	11,227	113.50	2.40
1944 ...	10,591	140.60	2.20
1945 ...	14,002	141.90	1.57
1946 ...	19,147	102.80	2.50
1947 ...	18,412	81.70	1.95
1948 ...	26,051	83.00	1.91
1949 ...	28,129	70.41	2.31
1950 ...	26,957	95.52	2.00
1951 ...	29,931	123.16	1.90
1952 ...	32,264	125.43	1.73
1953 ...	27.219	114.23	1.76
1954 ...	29,209	110.31	1.27
1955 ...	32,285	105.75	1.39
1956 ...	31,267	109.30	1.15
1957 ...	31,955	108.25	0.94
1958 ...	30,671	104.32	1.01
1959 ...	29,709	90.40	0.64
1960 ...	29,087	94.51	0.89

CHILD WELFARE SCHEME.

STATISTICS SUPPLEMENT No. 51.

Showing the number of pre-natal cases registered and followed up during the year 1960.

Centre	Pre-natal cases registered.	Booked Cases.							Unbooked Cases.							
		Total.	C.W.S.	Hospitals.	Private Doctors.	Private Nurses.	Unskilled attendants.	Not traceable.	Not confined.	Total	C.W.S.	Hospitals.	Private Doctors.	Private Nurses.	Unskilled attendants	Not traceable	Not confined.
1 Tondiarpet ...	1,434	970	590	200	1	...	16	52	111	464	116	225	2	...	23	82	16
2 Palmyrakuppam ...	1,284	491	216	188	1	...	15	33	38	793	76	411	...	1	25	151	129
3 Royapuram ...	1,372	868	421	310	2	...	4	59	72	504	74	281	...	...	14	77	58
4 Sanjeevirayanpet ...	1,288	937	608	177	4	1	11	83	53	351	37	165	5	1	22	95	26
5 Washermanpet ...	1,968	1,341	1,013	90	...	...	32	206	...	627	416	58	...	...	18	135	...
6 Vyasarpadi ...	1,214	1,048	858	79	...	...	...	55	56	166	25	40	...	...	30	30	41
7 George Town ...	1,394	1,046	786	55	20	21	30	34	100	348	158	92	4	11	17	46	20
8 Kothwal Bazaar ...	1,702	974	697	166	2	4	4	67	34	728	180	197	6	5	17	194	129
9 Muthialpet ...	1 330	964	560	219	2	5	45	70	63	366	53	141	2	7	17	140	6
10 Trevelyan Basin ...	1,229	731	441	31	9	8	4	17	221	498	137	9	8	10	10	20	304
11 Choolai Maty. Home.	1,743	1,743	1,315	207	6	2	12	36	165	...	...	...	...	...	...	...	...
12 Pulianthope ...	2,462	2,191	1,493	236	2	...	31	224	205	271	62	72	2	...	11	111	13
13 North Perambur ...	859	728	296	218	...	...	5	91	118	131	21	58	...	...	...	24	28
14 Sembiam ...	1,873	1,548	969	169	6	...	38	295	71	325	93	45	14	...	46	115	12
15 Ayanavaram ...	2,011	1,217	812	184	5	3	48	60	105	794	196	254	5	1	78	117	143
16 Kilpauk ...	1,192	731	494	38	3	4	7	125	60	461	63	163	20	35	40	100	40
17 Nammalwarpet ...	761	493	221	114	...	...	...	44	114	268	46	166	...	...	...	35	21
18 Kosapet ...	1,302	1,104	863	79	...	3	20	43	96	198	104	28	...	1	10	21	34

19	Purasawalkam ...	947	592	350	82	30	20	10	20	80	355	185	40	25	15	5	10	75
20	Ashok Vihar ...	1,063	773	498	138	4	...	8	65	60	290	58	107	2	...	19	65	39
21	Edapalayam ...	417	258	136	48	7	13	22	6	26	159	75	41	5	6	15	7	10
22	Park Town ...	487	242	158	39	10	5	...	15	15	245	38	103	23	1	...	61	19
23	Napier Park ...	1,086	793	270	388	7	9	17	44	58	293	11	235	1	1	4	17	24
24	Egmore ...	1,058	601	275	225	7	6	4	28	56	457	23	334	3	5	7	50	35
25	Chetpet ...	1,376	633	283	173	5	...	48	57	67	743	121	319	7	...	90	121	85
26	Thousand Lights ...	1,027	423	180	168	2	...	4	25	44	604	35	330	...	...	15	100	124
27	Nungambakkam ...	794	472	255	125	...	2	24	33	33	322	43	142	...	5	31	87	14
28	Kodambakkam ...	2,415	1,643	1,009	227	8	3	141	192	63	772	255	190	4	3	151	147	22
29	T. Nagar (North) ...	667	454	247	125	...	...	17	33	32	213	28	91	2	...	11	65	16
30	Royapettah ...	1,133	724	354	276	3	2	...	17	72	409	30	264	11	...	...	21	83
31	Triplicane ...	2,423	1,381	953	277	6	...	30	18	97	1,042	256	607	2	2	40	25	110
32	Zam Bazaar ...	1,053	636	273	274	8	...	11	38	32	417	29	279	1	...	16	56	36
33	Mirsahibpet ...	1,132	731	254	376	1	...	14	38	48	401	16	293	1	...	9	48	34
34	Mylapore ...	1,401	1,032	404	508	1	...	4	10	105	369	8	295	2	...	7	35	22
35	Teynampet ...	1,057	838	459	234	...	...	36	66	43	219	62	38	...	...	41	54	24
36	Saidapet Maty. Home.	2,422	1,886	1,127	244	1	4	60	420	30	536	83	136	...	4	47	221	45
37	T. Nagar (South) ...	835	518	217	204	...	...	6	66	25	317	47	150	...	3	7	84	26
38	Saidapet Sub-Centre.	1,121	876	489	232	1	1	30	57	66	245	31	123	...	...	26	54	11
39	Guindy ...	440	247	150	64	4	...	8	3	18	193	26	110	2	2	22	21	10
40	Mandavalli ...	951	542	207	269	...	...	8	8	50	409	8	332	1	1	16	6	45
41	Adayar ...	674	397	290	46	2	...	...	3	56	277	90	128	6	2	10	21	20
42	Basin Bridge ...	1,498	1,154	744	202	27	20	56	36	69	344	159	95	6	15	23	19	27
43	Hospital Maidan ...	467	354	288	21	4	1	4	8	28	113	48	21	1	...	4	11	28
44	Periamet ...	110	40	13	8	2	...	6	8	3	70	24	12	...	...	11	15	8
	Total ...	54,472	37,365	22,536	7,733	203	137	890	2,908	2,958	17,107	3,646	7,220	173	137	1,005	2,914	2,012

CHILD WELFARE SCHEME.

Statement showing deaths among cases brought to the notice of

Serial No.	Centre.	Cardio-vascular diseases.			Respiratory diseases.		Alimentary diseases.			Urinary tract diseases	Toxaemias.			
		Valvular diseases of heart.	Heart failure.	Anaemia.	Pneumonia.	Tuberculosis.	Tubercular enteritis.	Dysentery.	Intestinal obstruction.	Renal failure.	Pre-eclamptic.	Cholamia.	Cerebral Thormbosis.	Eclampsia.
1	Tondiarpet	...	1	...	...	...	...	1	...	...	...	...	...	...
2	Palmyrakuppam	...	...	...	...	...	...	...	...	...	...	...	...	...
3	Royapuram	...	...	...	...	...	...	...	...	...	...	...	...	...
4	Sanjeevirayanpet	...	...	...	...	...	...	...	...	...	1	...	...	...
5	Washermanpet	...	...	...	...	...	...	1	...	...	...	...	...	...
6	Vyasarpady	...	...	...	...	...	...	...	...	...	...	...	...	...
7	George Town	...	...	...	...	...	...	...	...	...	...	...	1	...
8	Kothwal Bazaar	...	...	...	...	...	...	...	...	...	...	...	...	...
9	Muthialpet	...	...	...	...	...	...	...	...	...	...	...	...	...
10	Trevelyan Basin	...	...	...	...	...	...	...	...	...	...	...	...	...
11	Choolai	...	1	1	...	...	...	...	...	...	...	...	...	1
12	Pulianthope	...	...	...	...	...	...	...	...	...	...	...	...	...
13	North Perambur	...	...	...	...	...	...	...	...	...	...	...	...	...
14	Sembium	...	...	1	...	...	...	...	...	...	...	...	...	...
15	Ayanavaram	...	...	...	...	...	...	...	...	...	...	...	...	...
16	Kilpauk	...	...	...	...	...	...	...	...	...	...	...	...	...
17	Nammalwarpet	...	...	...	...	...	...	...	...	...	...	...	...	...
18	Kosapet	...	...	...	...	...	...	...	...	...	...	...	...	...
19	Purasawalkam	...	...	...	...	...	...	...	...	...	...	...	...	...
20	Ashok Vihar	...	...	...	...	...	...	...	...	1	...	...	...	...
21	Edapalayam	...	...	...	...	...	...	...	...	...	...	...	...	...
22	Park Town	...	...	...	...	...	...	...	...	...	...	...	...	...
23	Napier Park	...	...	...	...	...	...	...	...	...	...	...	...	...
24	Egmore	...	...	...	...	...	...	...	...	...	...	...	...	...
25	Chetpet	...	...	...	...	...	...	...	...	...	...	...	...	...
26	Thousand Lights	...	...	...	...	...	...	...	...	...	...	...	...	...
27	Nungambakkam	...	...	...	...	...	...	...	...	...	...	...	...	...
28	Kodambakkam	...	...	...	...	...	...	...	...	...	...	...	...	...
29	T. Nagar (North)	...	...	...	...	...	...	...	...	...	...	...	...	...
30	Royapettah	...	...	...	...	...	...	...	...	...	...	...	...	...
31	Triplicane	...	...	...	...	...	...	...	...	...	...	...	...	...
32	Zam Bazaar	...	...	...	...	...	...	...	...	...	...	...	...	...
33	Mirsahibpet	...	1	...	...	...	...	...	...	...	...	...	...	...
34	Mylapore	...	...	...	...	...	...	...	...	...	...	...	...	...
35	Teynampet	...	...	...	...	...	...	...	...	...	...	...	...	...
36	Saidapet Maty. Home	...	...	...	...	...	...	...	...	...	1	...	1	...
37	T. Nagar (South)	...	...	...	...	...	...	...	...	...	...	...	...	...
38	Saidapet Centre	...	...	...	...	...	...	...	...	...	...	...	...	...
39	Guindy	...	...	...	...	...	...	...	...	...	...	...	...	...
40	Mandavalli	...	...	...	...	...	...	...	...	...	...	...	...	...
41	Adayar	...	...	...	...	...	...	...	...	...	...	...	...	...
42	Basin Bridge	...	...	...	...	...	...	...	...	...	...	...	...	...
43	Hospital Maidan	...	...	...	...	...	...	...	...	...	...	...	...	...
44	Periamet	...	...	...	...	...	...	...	...	...	...	...	...	...
		...	3	2	...	...	...	2	...	1	2	...	2	1

hild Welfare Scheme.

Haemorrhage.				Shock.				Infectious diseases.								
Accidental Haemorrhage.	Placenta Previa.	Intra and Post Partum Haemorrhage.	Retained Placenta.	Obstetric Shock.	Shock due to internal Manipulation.	Post-operative Shock.	Ruptured Uterus.	Tetanus.	Typhoid.	Meningitis.	Small-pox, Measles, etc	Other Fevers.	Puerperal Sepsis.	Pulmonary Embolism.	Puerperal Mania.	Total.
...	...	...	1	1	...	...	...	...	1	...	...	...	...	...	...	5
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
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CHILD WELFARE SCHEME.

Statement showing Pre-natal cases registered

S. No.	Centre	Cardio-Vascular diseases.			Respiratory diseases.				Alimentary tract diseases.				Toxaemia of Pregnancy					
		Valvular diseases of Heart.	Hypertension.	Vericose Veins.	Bronchitis	Pneumonia.	Pulmonary Tuberculosis.	Asthma.	Constipation.	Dyspepsia.	Diarrhoea.	Dysentery	Scanty Micturition	Albuminuria.	Pyelitis.	Pre-eclamptic Toxaemia.	Eclampsia.	Jaundice.
1	Tondiarpet ...	1	...	...	18	...	...	4	6	10	4	4	...	1	...	8	...	...
2	Palmyrakuppam ...	...	...	...	2	...	...	3	...	26	...	3	...	...	...	2	...	...
3	Royapuram ...	1	...	...	10	...	...	2	...	27	2	10	...	2	...	12	1	1
4	Sanjeevirayanpet ...	...	...	...	41	3	1	5	16	24	10	7	23	1	...	7	...	...
5	Washermanpet ...	7	...	...	40	...	...	4	79	5	8	9	17	...	...	3	...	...
6	Vyasarpady ...	...	3	...	52	...	...	...	24	24	23	18	46	...	...	...	...	7
7	George Town ...	3	...	1	108	...	...	2	27	71	5	2	...	...	...	15	1	...
8	Kothwal Bazaar ...	1	...	2	32	1	...	2	48	6	2	3	...	...	...	22	...	...
9	Muthialpet ...	...	...	...	12	...	...	1	31	2	2	3	8	...	...	11	...	...
10	Trevelyan Basin ...	1	3	...	16	...	...	1	1	27	...	1	3	...	...	6	...	...
11	Choolai ...	9	16	4	76		1	...	90	33	9	7	46	...	...	27	...	...
12	Pulianthope ...	...	...	...	118	...	...	6	30	270	2	14	65	1	...	14	...	...
13	North Perambur. ...	...	10	...	23	...	...	...	...	77	12	8	31	3	...	6	2	...
14	Sembium ...	...	2	...	29	...	...	6	5	9	14	9	47	4	...	13	...	...
15	Ayanavaram ...	7	...	1	19	...	2	4	2	16	1	5	11	...	1	62	...	...
16	Kilpauk ...	1	19	...	...	...	...	...	43	69	5	30	7	...	...	5	1	...
17	Nammalwarpet ...	...	8	1	11	...	...	3	...	32	3	5	25	5	...	2	...	...
18	Kosapet ...	...	...	...	23	...	...	...	34	110	...	9	19	...	...	1	...	...
19	Purasawalkam ...	...	4	2	22	...	...	7	3	93	9	11	56	...	...	31	...	...
20	Ashok Vihar ...	12	8	2	16	...	1	6	12	27	8	3	34	...	...	10	...	...
21	Edapalayam ...	...	...	...	25	...	...	2	26	47	7	6	33	...	...	5	...	...
22	Park Town ...	...	...	...	5	1	...	...	1	...	...	1	...	...	...	5	...	...
23	Napier Park ...	2	...	...	12	...	...	3	6	12	5	9	10	12	...	16	...	1
24	Egmore ...	2	...	1	24	1	...	5	22	23	3	5	8	3	...	8	1	...
25	Chetpet ...	4	...	...	15	...	...	5	31	47	4	2	23	...	...	15	...	...
26	Thousand Lights ...	...	...	...	24	...	1	37	84	10	6	29	9	...	...	10	1	...
27	Nungambakkam ...	1	...	...	19	...	...	...	7	28	5	4	6	1	...	9	...	...
28	Kodambakkam ...	...	1	...	5	...	...	1	4	5	...	...	18	23	...	15	...	...
29	T. Nagar (North) ...	3	1	...	11	...	...	...	...	2	...	2	...	7	3	...	...	...
30	Royapettah ...	1	...	...	16	...	...	50	183	1	2	...	39	11	...	12	...	...
31	Triplicane ...	3	6	...	51	...	1	1	20	92	13	1	50	1	...	56		2
32	Zam Bazaar ...	2	...	...	39	...	...	1	11	19	3	4	17	...	...	5	...	...
33	Mirsahibpet ...	1	...	...	40	...	...	2	12	30	4	5	20	...	...	...	...	...
34	Mylapore ...	8	...	1	36	...	...	1	...	150	6	9	3	...	5	...	...	...
35	Teynampet ...	...	...	...	13	...	1	...	7	3	1	2	2	...	...	...	...	...
36	Saidapet Maternity Home.	3	3	1	46	...	...	4	22	121	13	15	3	2	1	7	...	...
37	T. Nagar (South) ...	...	...	...	7	1	1	1	1	...	1	2	...	...	...	4	...	...
38	Saidapet Sub-Centre.	...	...	...	3	...	...	6	6	3	1	...	...		...1	...	...	...
39	Guindy ...	...	...	...	...	...	...	...	...	3	...	2	...	...	...	3	...	...
40	Mandavalli ...	1	...	1	20	...	1	...	...	100	1	10	4	...	4	11	...	...
41	Adayar ...	...	...	...	1	...	...	...	3	2	...	...	...	...	...	3	...	...
42	Basin Bridge ...	...	...	...	87	...	...	6	85	163	35	17	196	8	...	5	...	...
43	Hospital Maidan.	...	...	...	12	...	...	...	13	31	1	...	10	5	1	3	...	...
44	Periamet ...	...	...	...	2	...	...	...	...	1	...	...	...	...	...	2	...	...
	Total ...	74	84	17	1181	7	10	181	995	1851	230	286	889	90	16	451	7	11

d ailments of pregnancy diagnosed and patients advised in 1960.

	Deficiency diseases.		Pyrexia.			Debility.	Specific diseases.				Other diseases and abnormalities of pregnancy.							
	Vitamin.	Other Nutritional.	Influenza.	Malaria.	Rheumatism.	General Emaciation	Skin diseases.	Ear, Nose and Throat.	Syphilis and Gonorrhoea.	Leucorrhoea.	Morning sickness.	Anaemia.	Ante-partum Haemorrhage	Breast Abscess	Hydraminus.	Normal.	Other diseases.	Tota l.
.	139	...	3	...	...	...	5	2	...	3	...	221	...	...	...	526	15	970
1	79	...	26	...	...	23	2	...	...	...	...	169	...	...	...	152	3	491
13	98	...	42	...	...	32	8	...	...	...	...	293	...	...	...	302	12	868
9	73	108	6	...	...	6	19	1	1	...	...	189	...	...	...	336	51	937
..	2	...	7	...	...	28	...	...	...	1	...	176	...	1	...	871	83	1,341
28	36	...	2	...	...	2	1	...	...	...	...	50	...	...	2	505	230	1,048
..	50	...	4	...	...	1	3	...	37	3	...	313	2	...	1	382	15	1,046
10	123	3	4	...	...	3	2	...	5	1	2	136	...	...	2	458	106	974
..	77	...	4	...	...	99	3	...	...	...	...	202	...	...	...	442	67	964
2	65	1	2	...	...	2	1	...	1	...	...	76	...	...	...	503	9	731
2	218	...	15	...	...	123	13	...	71	5	...	133	2	1	5	771	66	1,743
..	215	41	...	...	...	41	1	...	62	3	...	225	...	...	3	1,010	70	21,91
..	90	...	21	6	...	71	...	...	...	...	...	102	...	...	...	221	45	728
32	146	18	3	...	...	20	1	...	40	2	...	256	...	...	1	639	252	1,548
..	47	6	1	...	...	1	5	...	25	1	...	51	...	...	1	933	72	1,217
9	68	2	1	...	...	46	4	...	...	...	...	...	50	...	...	331	40	731
4	61	...	5	...	...	32	3	...	...	1	...	83	...	...	...	162	47	493
3	41	...	3	...	...	3	1	...	...	1	...	187	...	...	...	470	199	1,104
17	86	19	2	...	...	...	...	...	16	8	7	16	3	1	3	157	19	592
..	81	...	9	...	...	12	6	...	...	2	...	46	1	...	1	330	146	773
10	27	...	9	2	...	...	...	4	...	...	...	32	...	...	...	8	11	258
6	7	...	2	...	...	14	1	...	...	...	...	92	2	...	...	97	8	242
10	56	...	11	4	3	14	12	...	...	1	5	101	1	...	...	466	19	793
6	60	6	1	...	...	10	4	...	...	2	5	45	1	...	...	343	11	601
..	76	2	12	...	...	53	...	...	1	...	...	47	...	...	...	244	53	633
1	22	...	...	...	...	15	2	...	...	6	...	48	...	...	...	88	30	423
..	34	...	...	...	...	29	...	1	...	...	...	29	...	...	...	270	29	472
..	329	...	...	...	...	41	16	...	35	...	...	218	...	...	...	930	2	1,643
..	17	...	...	...	...	13	...	...	...	...	...	16	...	...	...	360	19	454
2	39	...	...	...	...	27	2	...	...	5	...	128	...	...	...	138	68	724
2	37	4	7	...	...	217	13	...	...	...	...	159	...	1	1	450	188	1,381
..	17	49	...	...	...	25	9	...	...	2	...	45	...	...	4	351	23	636
...	35	18	...	...	...	10	3	...	...	2	...	62	...	...	...	435	20	731
...	452	63	8	...	...	11	2	...	...	1	1	138	1	...	4	99	23	1,032
...	35	29	...	...	...	...	...	...	...	...	...	133	...	...	...	604	8	838
13	95	4	12	...	...	11	21	...	1	23	...	231	...	...	2	918	314	1,886
...	24	...	2	...	...	25	...	1	...	...	...	27	...	...	1	402	18	518
...	83	11	...	...	...	...	1	...	...	...	...	128	...	...	...	633	...	876
2	79	...	...	...	...	...	...	...	2	...	...	106	...	...	1	46	...	247
...	204	33	10	...	...	...	4	...	1	1	...	41	...	1	1	76	17	542
5	92	11	...	...	...	2	1	...	17	...	...	187	...	...	...	72	...	397
40	89	56	46	13	9	25	23	16	...	16	8	78	...	4	...	80	43	1,154
4	27	2	...	1	...	...	4	...	...	...	...	30	...	...	...	145	65	354
...	...	...	...	...	...	...	...	...	...	...	...	9	...	...	1	25	...	40
231	3731	486	280	26	12	1087	196	25	315	90	28	5054	63	9	34	16,781	2,506	37,365

Statement showing Maternal Morbidity during the year 1960.

Serial number.	Centre.	Ante-Partum.						Intra and Post-Partum.							Puerperium.										
		Accidental Haemorrhage.	Placenta Praevia.	Anaemia.	Abnormal presentation.	Hydatiform Mole.	Ectopic Gestation.	Retained Placenta.	Post-partum Haemorrhage	Anatomical Abnormality contracted pelvis.	Malposition and disposition.	Tedious labour delayed 2nd stage.	Perenial and Cervical laceration	Urinary Complication.	Puerperal Sepsis.	Phlebitis Thrombosis.	Pyrexia.	Uterine disorders.	Puerperal Toxaemias.	Anaemia.	Psychosis.	Diseases of Breasts.	Other diseases.	Total.
1	Tondiarpet	6	...	9	12	...	...	3	9	...	1	26	39	...	2	...	19	...	2	11	...	...	6	145
2	Palmyrakuppam	...	...	27	1	...	...	...	1	...	...	2	...	...	...	...	9	1	...	45		...4	18	108
3	Royapuram	2	...	62	1	...	...	1	3	1	...	4	11	...	...	...	5	2	...	55	...	1	28	176
4	Sanjeevirayanpet	5	...	106	10	...	...	2	22	1	...	48	77	7	1	...	40	39	3	163	...	1	35	560
5	Washermanpet	15	...	8	12	...	...	4	12	...	...	43	36	...	1	...	10	...	...	2	...	...	33	176
6	Vyasarpady	4	...	13	4	1	...	2	7	...	1	53	7	2	...	...	14	...	...	4	...	...	...	112
7	George Town	5	...	...	6	...	...	...	1	1	...	34	57	...	1	1	10	...	4	27	...	...	8	155
8	Kothwal Bazaar	11	...	5	28	...	...	...	7	...	...	2	43	2	16	...	31	...	...	8	...	...	10	163
9	Muthialpet	1	...	...	1	...	...	...	3	...	...	2	15	...	8	...	44	...	...	...	...	...	1	75
10	Trevelyan Basin	1	...	49	18	...	...	4	7	...	...	7	16	...	21	...	35	...	6	55	...	...	58	277
11	Choolai	11	...	9	2	...	...	1	20	1	1	61	129	...	40	...	15	2	16	16	1	13	22	360
12	Pulianthope	11	...	87	24	...	...	8	15	...	1	50	44	...	...	...	42	...	6	188	...	1	8	485
13	North Parambur	1	...	36	2	...	...	1	1	...	...	10	13	9	3	...	15	...	2	36	...	5	12	146
14	Sembium	12	...	6	49	...	...	3	6	1	...	54	13	...	...	...	18	...	...	37	...	...	47	246
15	Ayanavaram	4	...	...	27	...	...	...	3	3	...	31	45	2	11	...	88	16	16	39	2	10	11	308
16	Kilpauk	1	...	1	2	1	...	...	1	3	1	1	15	...	...	...	3	...	1	1	...	...	9	40
17	Nammalwarpet	1	...	33	2	...	...	...	1	1	1	...	5	8	10	2	...	18	4	...	40	2	25	153

18	Kosapet ...	...	...	45	...	...	...	...	1	...	...	3	...	3	47	...	25	...	...	...	...	...	30	154
19	Purasawalkam ...	3	...	52	28	...	...	2	3	...	...	27	36	8	...	...	70	...	...	...	...	2	57	288
20	Ashok Vihar ...	4	...	...	11	...	...	2	1	...	1	8	39	...	1	...	27	...	5	...	...	...	8	107
21	Edapalayam ...	1	...	1	...	...	...	...	...	...	...	3	...	1	...	...	2	...	2	2	...	1	3	16
22	Park Town ...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...	...	...	...	14	...	...	...	16
23	Napier Park ...	4	...	27	4	...	...	...	3	...	...	10	4	...	3	...	5	...	...	2		2	53	117
24	Egmore ...	1	...	20	4	...	...	...	6	1	2	11	...	4	2	...	7	...	...	...	2	38	53	116
25	Chetput ...	...	...	21	...	...	...	...	18	1	...	17	28	...	1	...	33	...	...	28	...	1	20	185
26	Thousand Lights ...	2	...	33	2	...	...	...	...	...	1	10	...	1	...	...	6	...	2	36	...	...	41	134
27	Nungambakkam ...	1	...	...	1	...	...	1	...	1	...	6	...	...	...	...	...	...	...	...	...	...	...	10
28	Kodambakkam ...	...	...	...	22	...	...	...	15	2	8	35	91	...	7	...	15	...	2	182	...	4	270	653
29	T. Nagar (North) ...	...	...	...	...	...	...	...	...	1	...	9	...	...	...	...	...	...	...	...	...	...	...	10
30	Royapettah ...	2	20	6	1	...	...	...	5	...	1	12	3	...	...	...	5	...	3	33	...	...	24	115
31	Triplicane ...	4	...	1	4	...	...	1	7	...	...	43	57	2	...	...	17	...	1	5	...	...	27	169
32	Zam Bazaar ...	...	...	...	6	...	...	1	1	...	...	...	12	1	...	...	13	...	...	13	...	...	4	51
33	Mirsahibpet ...	...	...	...	2	...	...	...	...	...	1	...	5	1	...	...	12	...	...	13	...	...	2	36
34	Mylapore ...	20	...	99	...	...	...	...	...	...	...	27	4	...	...	...	29	...	...	126	...	...	...	305
35	Teynampet ...	...	...	2	3	...	...	...	...	...	...	4	1	...	...	...	23	...	...	...	...	...	...	33
36	Saidapet Maternity Home.	9	...	11	50	...	...	2	13	...	...	17	115	1	1	...	131	...	9	8		1	29	397
37	T. Nagar (South) ...	...	...	...	...	...	...	...	...	...	...	1	...	2	...	...	...	...	...	...	...	...	...	3
38	Saidapet Sub-Centre ...	5	...	...	...	...	...	1	...	...	...	3	...	...	...	...	...	...	...	...	...	...	2	11
39	Guindy ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3
40	Mandavalli ...	8	...	92	8	...	...	...	5	...	...	24	6	8	2	...	9	...	...	105	...	1	...	268
41	Adayar ...	...	...	...	1	...	...	1	1	...	...	1	2	...	...	...	1	...	...	6	...	...	2	15
42	Basin Bridge ...	...	...	...	3	...	...	...	2	...	...	5	2	4	...	...	22	4	11	20	...	5	19	97
43	Hospital Maidan	...	...	7	...	...	...	...	...	...	...	4	4	6	13	...	11	...	...	18	...	...	24	87
44	Periamet ...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	1	...	...	2	8
	Total ...	155	20	872	351	2	...	40	200	18	20	708	975	72	192	3	862	82	95	1299	45	74	802	7089

CHILD WELFARE SCHEME. STATISTICS SUPPLEMENT No. 58.

Statement showing infants born in 1959 and kept under observation during first year after birth.

Serial number.	Centre.	Total number of infants born in 1959.	Total number of still births in 1959.	Period.												Total number of deaths excluding still births.	Left the City or otherwise not traceable.	Said to be well.	Out of Division.	No. of living children in the City when one year old.	Total No. of living children when 1 year old.
				1 to 7 days.		8 days to 1 month		2 to 3 months.		4 to 6 months.		7 to 9 months.		12 to 12 months.							
				Died.	Not Traceable.	Died.	Not Traceable.	Died.	Not Traceable.	Died.	Not Traceable.	Died.	Not Traceable.	Died.	Not Traceable.						
1	Tondiarpet ...	1,178	19	25	19	12	2	25	5	15	8	23	12	15	20	115	66	107	63	808	915
2	Palmyrakuppam ...	174	4	1	...	1	...	1	...	2	...	6	...	4	1	15	1	13	...	141	154
3	Royapuram ...	325	8	5	...	4	1	8	2	16	1	7	1	8	1	48	6	37	...	226	263
4	Sanjeeviroyanpet ...	1,368	28	17	11	14	4	19	1	38	9	33	18	30	21	151	64	239	2	884	1,123
5	Washermanpet ...	1,740	47	35	21	20	1	40	8	38	17	21	43	19	151	173	241	277	21	981	1,258
6	Vyasarpady ...	953	24	17	19	3	1	5	...	14	1	13	5	10	18	62	44	260	20	543	803
7	George Town ...	914	14	10	18	11	3	9	3	31	3	22	11	16	53	99	91	135	...	575	710
8	Kothwal Bazaar ...	907	12	7	3	9	5	17	8	21	6	15	10	19	21	88	53	123	4	617	750
9	Muthialpet ...	841	8	16	3	15	...	12	1	23	4	17	6	15	63	98	77	169	...	489	658
10	Trevelyan Basin ...	1,054	10	11	14	10	8	7	4	23	6	26	18	19	14	96	64	215	...	669	884
11	Choolai ...	3,020	70	64	92	34	17	57	21	68	35	58	31	39	186	320	382	624	...	1,624	2,248
12	Pulianthope ...	824	24	18	4	7	7	9	14	22	19	14	10	10	73	81	127	95	...	497	592
13	North Perambur ...	354	9	8	...	7	...	8	2	5	10	5	9	5	6	38	27	65	...	215	280
14	Sembiam ...	1,385	34	21	10	15	5	16	9	17	12	23	11	7	138	99	185	101	...	966	1,067
15	Ayanavaram ...	1,202	41	27	21	6	4	16	10	15	10	9	17	10	32	83	94	111	88	785	896
16	Kilpauk ...	553	15	18	12	1	2	8	2	9	13	9	4	5	41	50	84	50	...	354	404
17	Nammalwarpet ...	279	5	4	...	1	...	2	1	7	4	3	8	7	24	24	37	53	...	160	213
18	Kosapet ...	319	1	7	2	4	...	11	3	7	2	6	8	5	4	41	19	26	...	232	258

19	Purasawalkam	1,146	21	35	24	15	4	15	6	27	14	7	10	25	60	124	121	228	...	652	880
20	Ashok Vihar	752	14	4	11	9	2	8	1	12	6	9	21	7	59	49	99	155	...	435	590
21	Edapalayam	71	2	1	...	1	...	...	...	3	...	1	1	1	1	7	2	6	...	54	60
22	Park Town	71	2	2	...	...	...	1	...	1	...	1	...	1	...	6	...	11	...	52	63
23	Napier Park	280	3	4	...	...	...	3	...	7	3	1	7	3	5	18	15	34	...	210	244
24	Egmore	251	7	6	...	2	...	4	1	2	4	5	5	...	7	19	17	43	...	165	208
25	Chetput	675	20	7	8	8	5	7	3	12	6	15	8	10	17	59	47	76	...	473	549
26	Thousand Lights	195	5	5	...	2	...	5	1	2	...	1	4	4	2	19	7	44	...	120	164
27	Nungambakkam	166	2	2	...	2	...	...	2	1	2	7	1	2	13	14	18	43	...	89	132
28	Kodambakkam	1,588	36	34	45	10	23	29	15	22	39	16	56	9	32	120	210	105	114	1,003	1,108
29	T. Nagar (North)	207	5	8	...	1	...	3	1	3	1	1	4	1	8	17	14	31	...	140	171
30	Royapettah	371	5	11	...	9	...	6	...	10	3	7	2	5	7	48	12	79	...	227	306
31	Triplicane	1,212	31	15	2	10	2	31	10	34	32	24	38	25	109	139	193	248	...	601	849
32	Zam Bazaar	310	8	5	...	2	1	3	...	7	2	4	6	1	8	22	17	55	...	208	263
33	Mirsahibpet	346	9	7	...	4	...	6	2	12	2	7	9	3	8	39	21	65	...	212	277
34	Mylapore	483	15	18	1	5	...	1	...	14	6	10	5	2	2	50	14	42	1	361	403
35	Teynampet	438	6	7	...	3	...	9	...	5	2	6	...	5	56	35	58	54	...	285	339
36	Saidapet Maternity Home.	2,105	42	28	64	14	20	18	8	27	25	34	36	28	157	149	310	396	...	1,208	1,604
37	T. Nagar (South)	232	11	2	...	2	...	3	...	4	3	...	3	1	13	12	19	49	...	141	190
38	Saidapet Sub-Centre	152	1	2	...	3	...	2	...	5	...	3	...	2	9	17	11	20	...	103	123
39	Guindy	87	3	1	2	2	...	1	...	1	...	...	...	3	...	8	3	8	8	57	65
40	Mandavalli	298	3	1	...	1	...	4	...	9	1	5	3	4	3	24	7	37	...	227	264
41	Adyar	348	8	4	1	4	...	7	2	5	1	7	5	5	6	32	15	51	22	220	271
42	Basin Bridge	227	6	3	...	3	...	5	2	9	7	8	5	5	2	33	16	24	...	148	172
43	Hospital Maidan	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
44	Periamet	159	4	2	...	2	1	2	2	2	1	...	2	2	4	10	11	20	...	114	134
45	Peddunaikenpet	149	2	2	...	...	...	1	...	3	3	3	1	4	4	13	8	15	...	111	126
		29,709	644	527	407	288	118	444	150	610	323	452	454	401	1,369	2,764	2,937	4,639	343	18,382	23,031

CHILD WELFARE SCHEME.

Statement showing causes of deaths among infants born in

Serial number.	Centre.	Number of infants born in 1959.	Number of live births.	Number of still births in 1959.	Neo-Natal deaths.					Infectious diseases.								Fevers.			Diseases of Respiratory system.		
					Pre-maturity.	Asphyxia Neo Natorum.	Birth injuries.	Congenital malformation and complications.	Others.	Cholera.	Small-pox.	Diphtheria.	Measles.	Enteric fever.	Anterior Poliomylitis	Meningitis.	Others.	Malaria.	Kala-Azar.	Others.	Tuberculosis of lungs	Pneumonia.	Others.
1	Tondiarpet ...	1,178	1,159	19	18	6	...	...	1	...	2	...	...	...	...	...	...	...	...	1	...	45	...
2	Palmyrakuppam.	174	170	4	...	1	...	...	...	...	1	...	...	...	...	...	...	...	...	4	...	1	...
3	Royapuram ...	325	317	8	7	...	...	...	...	1	...	...	...	...	...	...	...	...	...	5	...	10	2
4	Sanjeevirayanpet	1,368	1,340	28	6	8	...	...	3	...	4	1	2	...	...	...	10	...	...	...	...	45	3
5	Washermanpet ...	1,740	1,693	47	22	14	...	...	3	...	...	...	...	...	...	1	...	...	...	...	...	41	12
6	Vyasarpady ...	953	929	24	4	13	...	1	...	1	...	1	1	...	...	1	...	...	...	...	3	2	...
7	George Town ...	914	900	14	10	3	...	...	...	...	1	...	...	...	...	...	...	...	...	14	1	15	1
8	Kothwal Bazaar.	907	895	12	6	...	...	...	1	...	4	3	...	2	...	...	...	...	...	1	...	12	1
9	Muthialpet ...	841	833	8	15	3	...	1	...	...	10	...	...	...	...	...	3	...	...	4	...	18	10
10	Trevelyan Basin.	1,054	1,044	10	15	5	...	...		...	1	...	1	...	...	...	1	...	...	13	...	12	2
11	Choolai ...	3,020	2,950	70	44	24	1	4	...	...	25	2	4	...	...	...	7	...	...	14	...	31	13
12	Pulianthope ...	824	800	24	8	1	...	9	...	...	4	1	...	...	...	...	...	...	...	...	...	12	1
13	North Perambur.	354	345	9	6	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	6	...
14	Sembiam ...	1,385	1,351	34	15	2	...	...	...	...	...	...	...	...	...	...	12	...	...	...	...	9	2
15	Ayanavaram ...	1,202	1,061	41	16	4	...	5	1	...	...	...	1	...	...	...	...	...	...	3	...	11	5
16	Kilpauk ...	553	538	15	10	1	...	...	8	...	...	2	...	...	...	...	1	...	...	9	...	2	...
17	Nammalwarpet ...	279	274	5	4	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	8	...
18	Kosapet ...	319	318	1	8	...	...	...	...	...	1	...	...	...	...	...	...	1	...	6	...	...	1
19	Purasawalkam ...	1,146	1,125	21	13	10	1	5	...	...	2	...	...	...	...	...	...	...	...	13	...	8	5
20	Ashok Vihar ...	752	738	14	7	1	...	...	...	...	3	...	...	...	...	...	1	...	...	7	...	2	1
21	Edapalayam ...	71	69	2	2	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	1	...
22	Park Town ...	71	69	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...
23	Napier Park ...	280	277	3	2	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	8	4
24	Egmore ...	251	244	7	7	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...
25	Chetpet ...	675	655	20	3	1	2	1	6	...	2	...	...	...	...	...	...	...	2	...	...	18	...
26	Thousandlights ...	195	190	5	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	2	...
27	Nungambakkam.	166	164	2	2	...	...	...	...	...	4	...	...	...	...	...	...	...	...	...	...	2	...
28	Kodambakkam ...	1,588	1,552	36	21	12	...	...	4	1	1	...	...	...	...	...	...	...	...	15	...	4	...
29	T. Nagar (North)	207	202	5	6	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...
30	Royapettah ...	371	366	5	10	4	...	1	...	...	1	...	...	...	...	...	1	...	...	7	...	...	2
31	Triplicane ...	1,212	1,181	31	5	7	2	...	...	2	6	1	...	...	...	...	2	...	...	...	...	20	25
32	Zam Bazaar ...	310	302	8	3	1	...	...	3	...	...	...	...	...	...	...	...	...	...	1	...	1	...
33	Mirsahibpet ...	346	337	9	6	2	...	1	...	...	...	...	...	3	...	...	...	...	...	...	...	10	...
34	Mylapore ...	483	468	15	8	5	8	...	...	...	2	...	...	...	...	...	...	...	...	...	...	13	...
35	Teynampet ...	438	432	6	7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		1	12
36	Saidapet Maty. Home.	2,105	2,063	42	13	4	3	2	10	6	...	2	1	2	...	...	...	...	...	3	...	2	19
37	T. Nagar (South)	232	221	11	2	1	...	...	...	1	...	1	...	...	...	...	...	...	...	1	...	5	...
38	Saidapet Sub-Centre.	152	151	1	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	6
39	Guindy ...	87	84	3	1	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	2	...
40	Mandavalli ...	298	295	3	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	12	...
41	Adyar ...	348	340	8	3	...	1	...	...	...	3	...	...	...	...	...	...	...	...	...	...	4	...
42	Basin Bridge ...	227	221	6	4	1	...	...	...	...	1	...	...	...	4	...	...	...	...	...	...	3	...
43	Hospital Maidan.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
44	Periamet ...	159	155	4	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...3	...	...	...
45	Peddunaickenpet	149	147	2	2	...	...	...	...	...	1	...	...	...	...	...	...	3	...	...	...	3	...
	Total ...	29,709	29,065	644	354	139	18	31	42	12	80	14	11	9	4	2	38	4	2	127	4	404	127

59 and kept under observation during first year of life.

seases imatry ystem			Diseases urine system		Diseases of liver		V. D.	Diseases Nervous system				Deficiency Diseases			General. causes										
	Dysentery.	Others.	Nephritis.	Others.	Cirrhosis.	Others	Congenital syphylis	Convulsion.	Tetanus.	T.B. Meningitis.	Others.	Rickets.	Malnutrition	Others	Septicaemia and Pyaemia.	Accident injuries, etc.	Snake bite, scorpion sting, etc.	Other causes.	Causes unknown.	Total number of deaths excluding still births.	Left the City or otherwise not traceable.	Said to be well.	Out of division.	Number of living children in the city when one year old	Total number of living children when one year old.
34	5	...	...	...	...	...	2	...	...	...	...	...	...	...	1	...	...	...	...	115	66	107	63	808	915
2	2	...	...	...	...	...	...	...	...	...	...	...	4	...	...	...	...	...	...	15	1	13	...	141	154
11	7	...	...	...	...	...	...	...	...	...	...	...	3	...	...	...	...	2	...	48	6	37	...	226	263
33	9	3	...	...	2	2	...	...	...	...	...	...	9	3	3	1	...	6	...	151	64	239	2	884	1,123
48	9	...	...	...	...	...	...	1	...	...	...	...	9	6	...	...	...	5	...	173	241	277	21	981	1,258
24	1	5	4	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	62	44	260	20	543	803
30	5	...	...	1	...	...	1	4	...	...	...	...	4	...	...	...	...	...	1	99	91	135	...	575	710
34	7	1	...	...	1	...	...	4	...	...	...	...	5	2	...	...	...	...	5	88	53	123	4	617	750
12	7	1	...	...	...	...	1	1	...	...	...	...	4	...	...	1	...	2	4	98	77	169	...	489	658
29	4	...	...	...	...	...	1	1	...	...	...	...	2	1	...	...	...	5	4	96	64	215	...	669	884
79	12	2	...	...	...	1	2	11	...	...	...	...	26	4	10	...	2	...	2	320	382	624	...	1,624	2,248
35	1	1	...	...	...	...	...	...	...	...	2	...	1	...	3	...	...	*b*	1	81	127	95	...	497	592
21	...	...	...	...	...	...	...	...	...	...	...	...	...	3	...	...	...	...	...	38	27	65	...	215	280
43	...	...	...	...	...	...	...	3	...	...	...	...	...	1	2	...	...	...	10	99	185	101	...	966	1,067
23	6	1	...	...	...	...	...	1	...	...	...	...	...	...	4	...	...	...	2	83	94	111	88	785	896
9	2	...	...	...	...	...	...	2	...	...	...	...	3	1	...	...	...	...	...	50	84	50	...	354	404
11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	24	37	53	...	160	213
16	5	...	...	1	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	41	19	26	...	232	258
33	10	...	...	...	...	...	...	10	...	...	...	1	4	2	1	...	...	1	5	124	121	228	...	652	880
8	3	...	...	...	...	...	...	3	...	1	...	...	2	...	2	...	...	...	8	49	99	155	...	435	590
2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	7	2	6	...	54	60
1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	6	...	11	...	52	63
2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	18	15	34	...	210	244
7	1	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	19	17	43	...	165	208
16	4	...	...	...	...	...	...	...	...	...	...	...	4	...	...	...	...	...	...	59	47	76	...	473	549
5	2	...	...	...	...	...	...	2	...	...	...	...	1	...	1	...	...	...	...	19	7	44	...	120	164
2	1	...	...	...	...	...	...	2	...	...	...	...	1	...	...	...	...	...		14	18	43	...	89	132
35	1	...	...	...	...	...	...	9	...	...	...	3	8	...	...	...	...	4	2	120	210	105	114	1,003	1,108
4	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	17	14	31	...	140	171
10	3	1	...	2	1	...	2	...	...	...	...	...	3	...	...	...	...	...	...	48	12	79	...	227	306
49	4	...	...	...	...	...	...	14	...	...	...	...	1	...	...	1	...	...	...	139	193	248	...	601	849
6	1	...	...	...	...	...	...	1	...	...	...	1	4	...	...	...	...	...	...	22	17	55	...	208	263
10	...	...	1	1	...	1	...	2	...	...	...	...	2	...	...	...	...	...	...	39	21	65	...	212	277
9	3	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	50	14	42	1	361	403
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	35	58	54	...	285	339
..	53	4	...	...	...	...	1	3	1	...	15	...	3	...	2	...	...	...	...	149	310	396	...	1,208	1,604
2	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	12	19	49	...	141	190
6	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	17	11	20	...	103	123
2	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	8	3	8	8	57	65
7	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	2	24	7	37	...	227	264
17	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3	32	15	51	22	220	271
13	5	1	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	33	16	24	...	148	172
..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	2	10	11	20	...	114	134
2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	13	8	15	...	111	126
757	77	23	6	5	5	5	10	78	2	1	17	5	105	24	27	3	2	27	57	2764	2937	4639	343	18,382	23,031

CHILD WELFARE SCHEME.

Statement showing the total number of attendance of Expectant and

Serial number.	Centre.		Attendance at Clinics.							Total New Attendance.	Total Old Attendance.
		Infants.		Pre-school.		Expectant Mothers.		Nursing Mothers.			
		New.	Old.	New.	Old.	New.	Old.	New.	Old.		
1	Tondiarpet ...	1,735	3,518	222	91	970	646	1,921	3,549	4,848	7,804
2	Palmyrakuppam ...	504	712	57	18	491	280	806	780	1,858	1,790
3	Royapuram ...	647	919	75	19	868	384	877	957	2,467	2,279
4	Sanjeevirayanpet ...	1,510	3,939	237	168	937	1,052	1,938	4,122	4,622	9,281
5	Washermanpet ...	2,699	7,509	375	127	1,341	1,720	3,084	7,389	7,499	16,745
6	Vyasarpady ...	1,468	4,815	404	352	1,048	1,286	2,190	4,503	5,110	10,956
7	George Town ...	1,516	4,217	292	373	1,046	2,083	1,603	3,879	4,457	10,552
8	Kothwal Bazaar ...	1,731	3,154	426	469	974	1,383	1,958	3,579	5,089	8,585
9	Muthialpet ...	908	1,823	117	87	964	957	1,175	1,942	3,164	4,809
10	Trevelyan Basin ...	1,965	4,045	348	164	731	1,027	2,329	4,242	5,373	9,478
11	Choolai ...	3,811	7,717	2,572	652	1,743	3,153	5,094	11,252	13,220	22,774
12	Pulianthope ...	2,457	3,545	261	133	2,191	1,550	3,251	3,884	8,160	9,112
13	North Perambur ...	724	601	158	39	728	389	1,147	646	2,757	1,675
14	Sembiam ...	1,715	6,554	160	281	1,548	3,388	2,763	8,062	6,186	18,285
15	Ayanavaram ...	1,700	4,625	442	332	1,217	1,693	2,065	4,521	5,424	11,171
16	Kilpauk ...	1,238	2,776	300	310	731	830	1,649	2,700	3,918	6,616
17	Nammalwarpet ...	781	831	171	78	493	307	1,001	776	2,446	1,992
18	Kosapet ...	919	905	102	18	1,104	584	1,134	895	3,259	2,402
19	Purasawalkam ...	1,972	5,047	696	468	592	997	1,989	5,126	5,249	11,638
20	Ashok Vihar ...	1,483	1,837	1,302	486	773	790	1,969	2,331	5,527	5,444
21	Edapalayam ...	307	411	50	33	258	278	326	408	941	1,130
22	Park Town ...	335	712	128	140	242	393	362	614	1,067	1,859
23	Napier Park ...	646	249	23	9	793	386	865	273	2,327	917
24	Egmore ...	740	900	211	63	601	498	850	818	2,402	2,279
25	Chetpet ...	1,067	3,998	477	1,102	633	1,175	1,418	4,260	3,595	10,535
26	Thousand Lights ...	786	1,936	166	128	423	631	999	1,856	2,374	4,551
27	Nungambakkam ...	323	166	12	1	472	145	390	93	1,197	405
28	Kodambakkam ...	2,962	9,471	172	62	1,643	2,982	3,647	9,912	8,424	22,427
29	T. Nagar (North) ...	185	85	8	...	454	85	164	14	811	184
30	Royapettah ...	960	2,036	172	159	724	1,083	1,160	1,896	3,016	5,174
31	Triplicane ...	2,208	7,783	470	566	1,381	2,929	2,449	7,417	6,508	18,695
32	Zam Bazaar ...	1,007	1,138	197	103	636	1,104	818	981	2,658	3,326
33	Mirsahibpet ...	1,036	1,297	93	35	731	922	978	1,135	2,838	3,389
34	Mylapore ...	974	1,307	229	187	1,032	1,358	1,352	1,420	3,587	4,272
35	Teynampet ...	570	332	21	17	833	398	747	394	2,171	1,141
36	Saidapet Maternity. Home.	2,680	11,091	229	795	1,886	2,020	3,970	11,813	8,765	25,719
37	T. Nagar (South) ...	117	16	6	1	518	157	131	10	772	184
38	Saidapet Sub-Centre.	913	1,228	124	38	876	849	1,032	1,363	2,945	3,478
39	Guindy ...	755	523	384	91	247	442	550	381	1,936	1,437
40	Mandavalli ...	819	1,226	226	207	542	1,100	1,135	1,238	2,722	3,771
41	Adyar ...	947	661	458	62	397	472	855	526	2,657	1,721
42	Basin Bridge ...	640	514	46	48	1,154	459	723	510	2,563	1,531
43	Hospital Maidan ...	376	814	76	36	354	357	452	849	1,258	2,056
44	Periamet ...	74	57	18	12	40	13	88	56	220	138
	Total ...	52,910	117040	12,713	8,560	37,360	44,735	65,404	12,372	168387	293707

ursing Mothers and Children at the Out-Patient Clinincs in 1960.

Grand Total.	Diseases Treated (New).										Total.
	Respiratory	Alimentary.	Skin Affection.	Influenza.	Ear and Eye Diseases.	Anaemia.	Vitamin Deficiency.	Malaria.	Normal.	Other Diseases.	
12,652	385	355	31	92	8	487	201	...	2,836	453	4,848
3,648	171	179	41	123	12	339	139	1	693	160	1,858
4,746	191	184	37	162	7	480	168	...	1,072	166	2,467
13,903	414	419	73	238	108	309	269	...	1,541	1,251	4,622
24,244	722	1,321	144	535	54	609	585	14	2,915	600	7,499
16,066	803	675	50	6	42	291	307	...	1,432	1,504	5,110
15,009	781	486	120	441	43	589	147	...	1,428	422	4,457
13,674	806	917	115	327	39	283	206	8	1,656	732	5,089
7,973	362	271	43	42	2	503	284	17	1,399	241	3,164
14,851	374	372	62	249	7	291	161	...	3,202	655	5,373
35,994	1,822	1,767	738	1,412	508	1,140	1,193	...	680	3,960	13,220
17,272	1,908	1,404	459	1,139	510	871	570	...	394	905	8,160
4,432	314	339	36	63	23	320	99	...	1,249	314	2,757
24,471	205	625	33	122	...	422	265	...	3,483	1,031	6,186
16,595	1,069	759	60	210	10	270	301	...	1,483	1,262	5,424
10,534	486	568	214	467	87	216	281	23	673	903	3,918
4,438	332	269	44	53	9	175	66	...	1,214	284	2,446
5,661	311	645	57	257	21	271	65	...	881	751	3,259
16,887	1,099	699	346	364	138	208	212	...	1,270	913	5,249
10,971	1,514	1,390	414	494	386	48	115	...	423	743	5,527
2,071	235	255	43	94	6	29	44	1	44	190	941
2,926	197	117	37	73	1	158	37	...	295	152	1,067
3,244	168	163	32	107	...	133	96	2	1,373	253	2,327
4,681	315	263	65	80	4	116	76	...	1,064	419	2,402
14,130	354	404	125	14	11	108	236	...	1,710	633	3,595
6,925	412	457	106	199	5	136	118	...	559	382	2,374
1,602	78	83	6	26	1	32	8	...	920	43	1,197
30,851	1,513	1,064	383	828	331	612	476	...	2,160	1,057	8,424
995	31	51	4	15	...	31	7	...	638	34	811
8,190	551	513	110	217	11	252	203	...	434	725	3,016
25,203	459	978	113	298	23	194	310	2	3,772	359	6,508
5,984	565	466	131	72	13	181	71	2	950	207	2,658
6,227	365	483	95	139	14	200	158	...	1,174	21	2,838
7,859	603	480	176	10	15	334	632	4	309	1,024	3,587
3,312	80	55	24	...	26	355	292	...	1,339	...	2,171
34,484	439	720	39	246	3	450	374	3	5,432	1,059	8,765
956	42	40	9	5	...	25	20	...	602	29	772
6,423	506	443	69	164	14	303	90	...	1,253	103	2,945
3,373	398	310	65	68	33	180	145	2	433	302	1,936
6,493	470	420	141	203	12	238	477	...	192	569	2,722
4,378	568	384	90	92	38	274	191	6	534	480	2,657
4,094	579	714	56	207	27	142	229	26	164	419	2,563
3,314	120	202	34	73	1	55	34	...	361	378	1,258
358	75	38	5	38	...	8	5	...	45	6	220
462,094	23,192	22,747	5,075	10,064	2,603	12,668	9,963	111	56,681	26,285	168,387

HR—55 End

CHILD WELFARE SCHEME.

Annual Return—Maternity and

S. No.	Centre.	Brought under Care.					Home		
							Health		
		Maternity Cases Total No. of Mothers.	Ante-Natal.	Labour.	Infants.	Pre-school.	Women Medical Officers.	Ante-Natal	Post-natal.
1	Tondiarpet ...	1,434	970	1,098	1,073	915	714	42	321
2	Palmyrakuppam ...	1,284	491	205	201	154	366	124	137
3	Royapuram ...	1,372	868	315	312	263	633	67	279
4	Sanjeevirayanpet ...	1,288	937	1,116	1,096	1,123	559	15	92
5	Washermanpet ...	1,968	1,341	1,785	1,741	1,258	302	207	960
6	Vyasarpady ...	1,214	1,048	937	916	803	742	...	587
7	George Town ...	1,394	1,046	944	924	710	660	...	533
8	Kothwal Bazaar ...	1,702	974	1,096	1,083	750	723	...	862
9	Muthialpet ...	1,330	964	388	381	658	600	2	45
10	Trevelyan Basin ...	1,229	731	1,010	986	884	805	47	33
11	Choolai ...	1,743	1,743	2,271	2,234	2,248	911	24	128
12	Pulianthope ...	2,462	2,191	1,504	1,477	592	704	...	1,498
13	North Perambur ...	859	728	317	307	280	419	...	78
14	Sembiam ...	1,873	1,548	1,317	1,294	1,067	704	...	182
15	Ayanavaram ...	1,854	1,217	1,218	1,191	896	744	...	732
16	Kilpauk ...	1,192	731	557	543	404	745	...	23
17	Nammalwarpet ...	761	493	221	217	213	339	...	67
18	Kosapet ...	1,303	1,104	322	313	269	365	1	44
19	Purasawalkam ...	947	592	1,118	1,094	880	530	...	62
20	Ashok Vihar ...	1,063	773	836	823	590	14	...	138
21	Edapalayam ...	417	258	66	64	60	420	68	57
22	Park Town ...	487	242	70	70	63	387	29	28
23	Napier Park ...	1,086	793	285	281	244	205	...	80
24	Egmore ...	1,058	601	271	263	208	156	7	84
25	Chetpet ...	1,376	633	612	602	549	497	2	27
26	Thousand Lights ...	1,027	423	193	187	164	597	...	50
27	Nungambakkam ...	794	472	160	155	132	229	...	185
28	Kodambakkam ...	2,415	1,643	1,633	1,595	1,222	1,222	...	952
29	T. Nagar (North) ...	667	454	179	175	171	248	...	184
30	Royapettah ...	1,133	724	338	333	306	596	23	65
31	Triplicane ...	2,423	1,381	1,209	1,186	849	692	...	98
32	Zam Bazaar ...	1,053	636	304	296	263	306	...	28
33	Mirsahibpet ...	1,132	731	358	351	277	336	...	18
34	Mylapore ...	1,401	1,032	498	484	403	713	...	370
35	Teynampet ...	1,052	838	418	406	339	322	...	182
36	Saidapet Maternity Home ...	2,422	1,886	2,286	2,233	1,604	673	...	126
37	T. Nagar (South) ...	834	518	185	179	190	200	...	228
38	Saidapet Centre ...	1,121	876	147	142	123	413	...	93
39	Guindy ...	440	247	112	111	65	550	11	100
40	Mandavalli ...	951	542	280	272	264	656	...	207
41	Adyar ...	674	397	420	414	271	550	...	411
42	Basin Bridge ...	1,498	1,154	382	371	172	516	73	253
43	Hospital Maidan ...	427	354	91	89	...	203	...	57
44	Periamet ...	110	40	15	15	135	76	...	1
	Total ...	54,270	37,365	29,087	28,480	23,031	22,342	742	10,685

ild Welfare for the year 1960.

sits.				Clinics.						Maternal Mortality and Morbidity.	
isitors:		Midwives.		Attendance.							
Infants.	Toddlers.	Ante-Natal.	Post Natal.	Number held.	Ante-Natal.	Number held.	Post-Natal.	Number held.	Infants and Toddlers.	Mortality.	Morbidity.
5,069	955	1,017	5,792	157	970	52	120	105	330	5	145
1,614	210	1,030	2,154	101	612	51	70	51	297	...	108
1,520	486	896	3,516	104	982	50	145	50	433	...	176
4,479	845	1,610	4,128	157	1,989	44	166	67	363	1	560
5,967	1,301	5,305	6,142	152	1,341	46	225	98	728	1	176
2,324	632	694	4,584	150	1,048	48	120	105	573	...	112
3,035	611	220	4,085	150	1,046	46	207	89	627	1	155
4,028	828	1,702	4,480	134	974	44	199	89	686	2	163
1,349	728	798	4,532	97	964	50	252	47	329	1	75
2,158	706	822	2,725	132	731	43	156	119	743	...	277
6,056	1,392	1,823	7,628	151	2,223	51	449	90	666	3	360
2,210	1,614	665	11,884	140	2,191	39	196	52	479	1	485
1,849	602	854	3,166	104	728	52	1,147	52	882	...	146
1,244	1,025	8,350	7,237	121	1,548	39	111	78	538	2	246
2,649	869	1,077	4,167	157	1,515	44	140	77	314	1	308
360	301	933	3,071	130	731	49	156	94	524	...	40
1,989	348	529	2,048	104	493	52	1,001	52	952	...	153
1,309	584	1,303	3,995	91	1,104	41	1,134	91	1,021	...	154
1,722	331	511	4,187	157	1,589	41	138	157	916	2	288
1,871	542	545	2,459	82	773	37	140	79	503	2	107
1,354	168	276	911	103	258	52	75	52	313	...	16
1,445	143	377	1,192	98	242	40	86	40	274	...	16
2,307	289	764	2,574	98	1,179	43	162	50	456	...	117
1,754	177	879	2,942	98	1,099	47	120	49	411	...	116
1,376	482	1,029	2,657	152	633	50	145	94	354	...	185
1,229	95	948	1,702	105	1,054	52	159	52	737	...	134
576	177	580	1,740	100	472	50	54	50	165	...	10
3,688	972	1,713	5,219	152	1,643	50	363	126	1,449	1	653
557	200	494	2,291	102	454	49	60	49	269	...	10
1,155	203	854	2,709	105	1,807	52	251	52	722	...	115
5,105	795	1,647	5,636	140	1,381	50	314	132	1,110	...	169
1,430	251	691	2,746	105	1,740	52	206	52	587	...	51
1,195	240	857	3,334	105	1,653	52	140	52	572	1	36
3,338	426	988	3,078	114	1,032	52	166	52	537	...	305
1,275	388	962	2,487	99	833	49	127	49	559	...	33
3,954	921	2,127	5,919	152	1,886	52	381	108	871	2	397
416	248	591	1,978	92	518	50	43	49	66	...	3
1,721	500	1,003	2,394	50	876	44	80	49	614	...	11
811	72	390	1,128	156	255	45	118	77	713	...	3
2,284	266	613	1,919	103	542	52	138	52	523	...	268
676	500	2,896	2,475	146	397	52	400	108	1,406	...	15
1,927	692	607	5,569	105	1,154	53	316	53	667	...	97
1,311	258	427	1,100	89	354	29	452	45	452	...	87
62	25	52	400	13	40	11	88	12	92	...	8
93,718	23,398	52,449	156,080	5,153	45,054	2,047	10,716	3,146	25,823	26	7,089

CHILD WELFARE SCHEME. STATISTICS SUPPLEMENT No. 53.

Statement showing the total number of priority milk consumers during the year 1960.

S. No.	Centre.	Expectant mothers.	Nursing mothers.	Infants.	Toddlers.	Total.
1	Tondiarpet	...	...	77	...	77
2	Palmyrakuppam	...	...	63	...	63
3	Royapuram	...	...	70	...	70
4	Sanjeevirayanpet	...	...	100	...	100
5	Washermanpet	...	...	78	...	78
6	Vyasarpady	...	...	95	...	95
7	George Town	...	...	85	34	119
8	Kothwal Bazaar	...	...	89	...	89
9	Muthialpet	...	...	57	...	57
10	Trevelyan Basin	...	...	106	...	106
11	Choolai	...	...	128	...	128
12	Pulianthope	...	...	107	...	107
13	North Perambur	...	...	91	...	91
14	Sembiam	...	...	106	...	106
15	Ayanavaram	...	...	64	...	64
16	Kilpauk	...	...	63	...	63
17	Nammalwarpet	...	...	64	...	64
18	Kosapet	...	...	78	...	78
19	Purasawalkam	...	...	97	...	97
20	Ashok Vihar	...	...	115	...	115
21	Edapalayam	...	...	...	...	...
22	Park Town	...	...	56	...	56
23	Napier Park	...	...	83	3	86
24	Egmore	...	...	87	...	87
25	Chetpet	...	...	91	1	92
26	Thousand Lights	...	...	75	...	75
27	Nungambakkam	...	...	49	...	49
28	Kodambakkam	...	...	50	4	54
29	T. Nagar (North)	...	...	66	...	66
30	Royapettah	...	...	95	...	95
31	Triplicane	...	...	85	...	85
32	Zam Bazaar	...	...	87	...	87
33	Mirsahibpet	...	...	100	...	100
34	Mylapore	...	...	39	...	39
35	Teynampet	...	...	66	...	66
36	Saidapet Maternity Home	...	...	93	...	93
37	T. Nagar (South)	...	...	...	...	...
38	Saidapet Sub-Centre	...	...	82	...	82
39	Guindy	...	...	78	2	80
40	Mandavalli	...	...	41	...	41
41	Adayar	...	...	85	...	85
42	Basin Bridge	...	...	77	...	77
43	Hospital Maidan	...	...	...	...	...
44	Periamet	...	...	35	...	35
	Total	...	...	3,263	44	3,307

Solar Works, Madras-1.

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19 DEC 1961
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